

1998

BMW

Z3

(E36/7)

Electrical

Troubleshooting

Manual

Z3 produced 9/97 thru Present



ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36/7 (Z3 Roadster)

SCHEMATICS

MODEL YEAR 1998

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WINDSHIELD WASHER JET HEATERS	6169.0-00
WIPER MOTOR, M3	6160.1-00
WIPER MOTOR, M3	6160.1-02
WIPER/WASHER MODULE (LOW II), A64	6160.1-02
WIPER/WASHER MODULE (WWM)	6160.1
WIPER/WASHER MODULE, A51	6160.1
WIPER/WASHER MODULE, A51	6167.1-00
WIPER/WASHER SWITCH, S5	6160.1-01
WIPER/WASHER SWITCH, S5	6160.1-02
ZKE CENTRAL LOCKING (ZV)	5126.0
ZKE POWER WINDOWS (FH)	5133.0

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement, all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

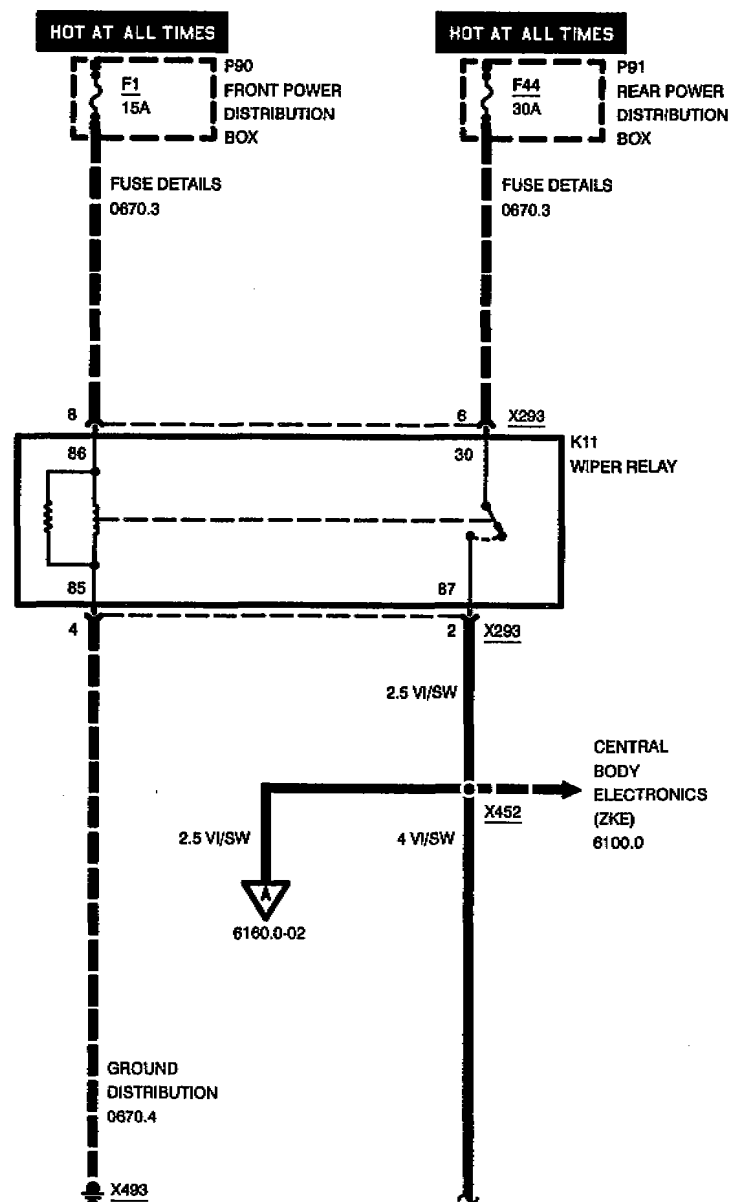
All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Example

General conventions can be explained based on the following schematic example.



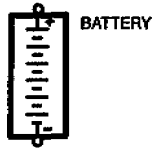


INTRODUCTION

Z3

General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).
2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).
3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).
4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.
5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.
8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.



BATTERY



HEATING ELEMENT



VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



ANTENNA



FUSE DETAILS



LOUDSPEAKER OR HORN



VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE



CONTROL/POWER ELECTRONICS



FUSIBLE LINK



LIGHT



DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW



HALL EFFECT SENSOR



RADIO



CIRCUIT BREAKER



PERMANENT MAGNET MOTOR ONE SPEED



ZENER DIODE TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH



THERMO SWITCH



PERMANENT MAGNET MOTOR TWO SPEEDS



LIGHT EMITTING DIODE



INDUCTIVE SENSOR



SOLENOID



KNOCK SENSOR



OXYGEN SENSOR



VEHICLE SPEED SENSOR

SYMBOLS

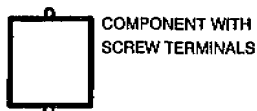
Z3



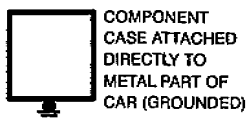
ENTIRE COM-
PONENT SHOWN



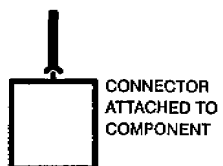
PART OF COM-
PONENT SHOWN



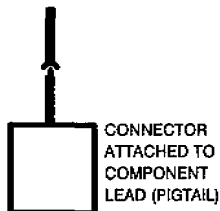
COMPONENT WITH
SCREW TERMINALS



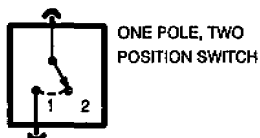
COMPONENT
CASE ATTACHED
DIRECTLY TO
METAL PART OF
CAR (GROUNDED)



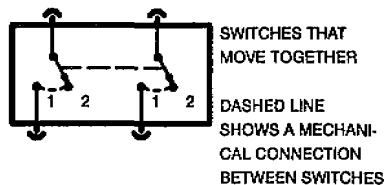
CONNECTOR
ATTACHED TO
COMPONENT



CONNECTOR
ATTACHED TO
COMPONENT
LEAD (PIGTAIL)



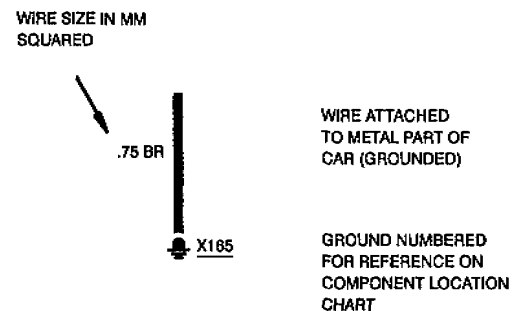
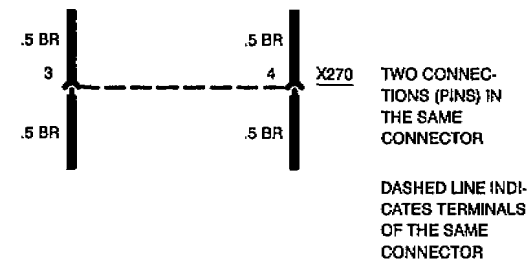
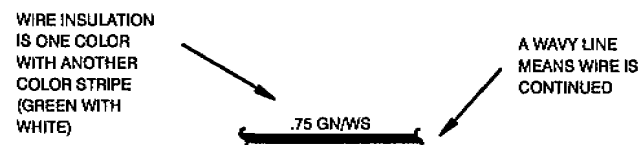
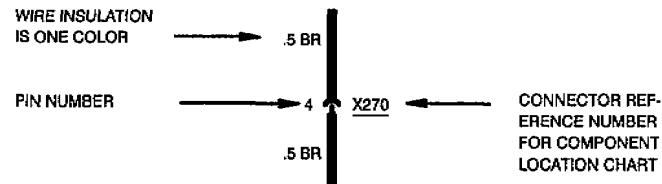
ONE POLE, TWO
POSITION SWITCH



SWITCHES THAT
MOVE TOGETHER

DASHED LINE
SHOWS A MECHANICAL
CONNECTION
BETWEEN SWITCHES

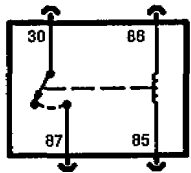
WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT



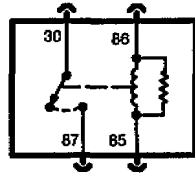


SYMBOLS

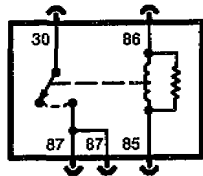
Z3



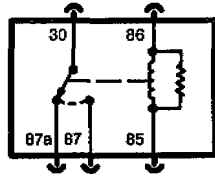
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING



CONTACT RELAY WITH TWO OUTPUTS



CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER DESCRIPTION

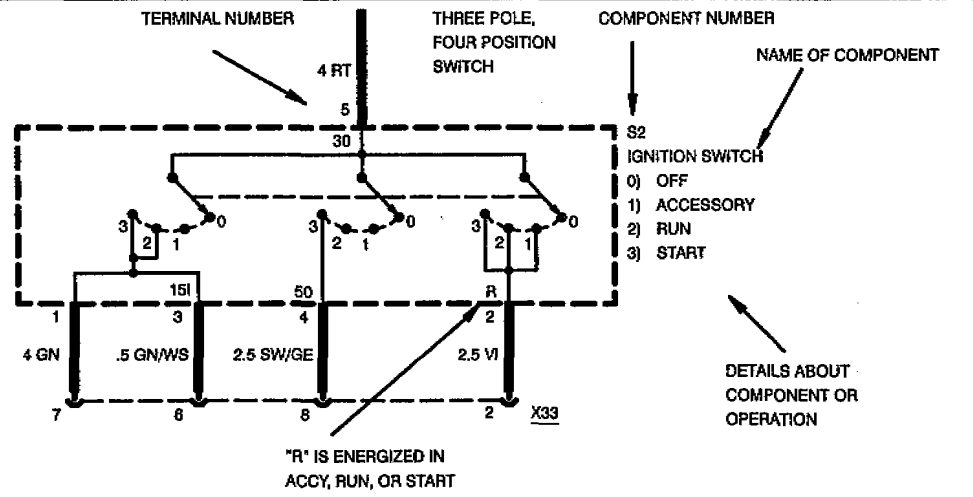
30 RELAY INPUT

85 RELAY OUTPUT (WINDING)

86 RELAY INPUT (WINDING)

87 RELAY OUTPUT (ENERGIZED)

87a RELAY OUTPUT (AT REST)



TERMINAL NUMBER DESCRIPTION TERMINAL NUMBER DESCRIPTION

50 VOLTAGE: IGNITION SWITCH IN START

30 VOLTAGE: SUPPLIED AT ALL TIMES

15 VOLTAGE: IGNITION SWITCH IN RUN OR START

151 VOLTAGE: IGNITION SWITCH IN RUN

R VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

31 GROUND

HOT AT ALL TIMES



INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

POWER STATUS

HOT AT ALL TIMES

HOT IN RUN AND START

HOT IN ACCY, RUN AND START

DESCRIPTION

VOLTAGE: SUPPLIED AT ALL TIMES

VOLTAGE: IGNITION SWITCH IN RUN OR START

VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START



SYMBOLS

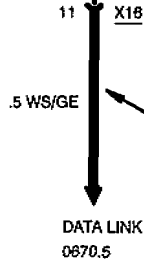
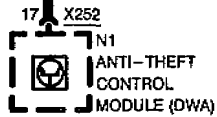
Z3

HOT IN ACCY, RUN AND START

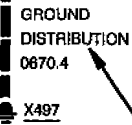
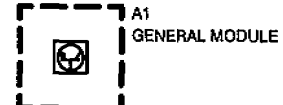


FUSE DETAILS
0670.3

THE COMPLETE
WIRE PROGRESSION
AND FURTHER
CIRCUITS
CONNECTED TO
FUSE 18 ARE
SHOWN IN CELL
"0670.3 FUSE
DETAILS" AT FUSE 18



CIRCUIT REF-
ERENCE--A WIRE
WHICH CONNECTS
TO ANOTHER CIRCUIT



THE COMPLETE
WIRE PROGRES-
SION AND FUR-
THER CIRCUITS
CONNECTED TO
GROUND X497
ARE SHOWN IN
CELL "0670.4
GROUND
DISTRIBUTION" AT
GROUND X497



1.5 BR



0670.0-03

CURRENT PATH IS
CONTINUED AS
LABELED

0670.0-02

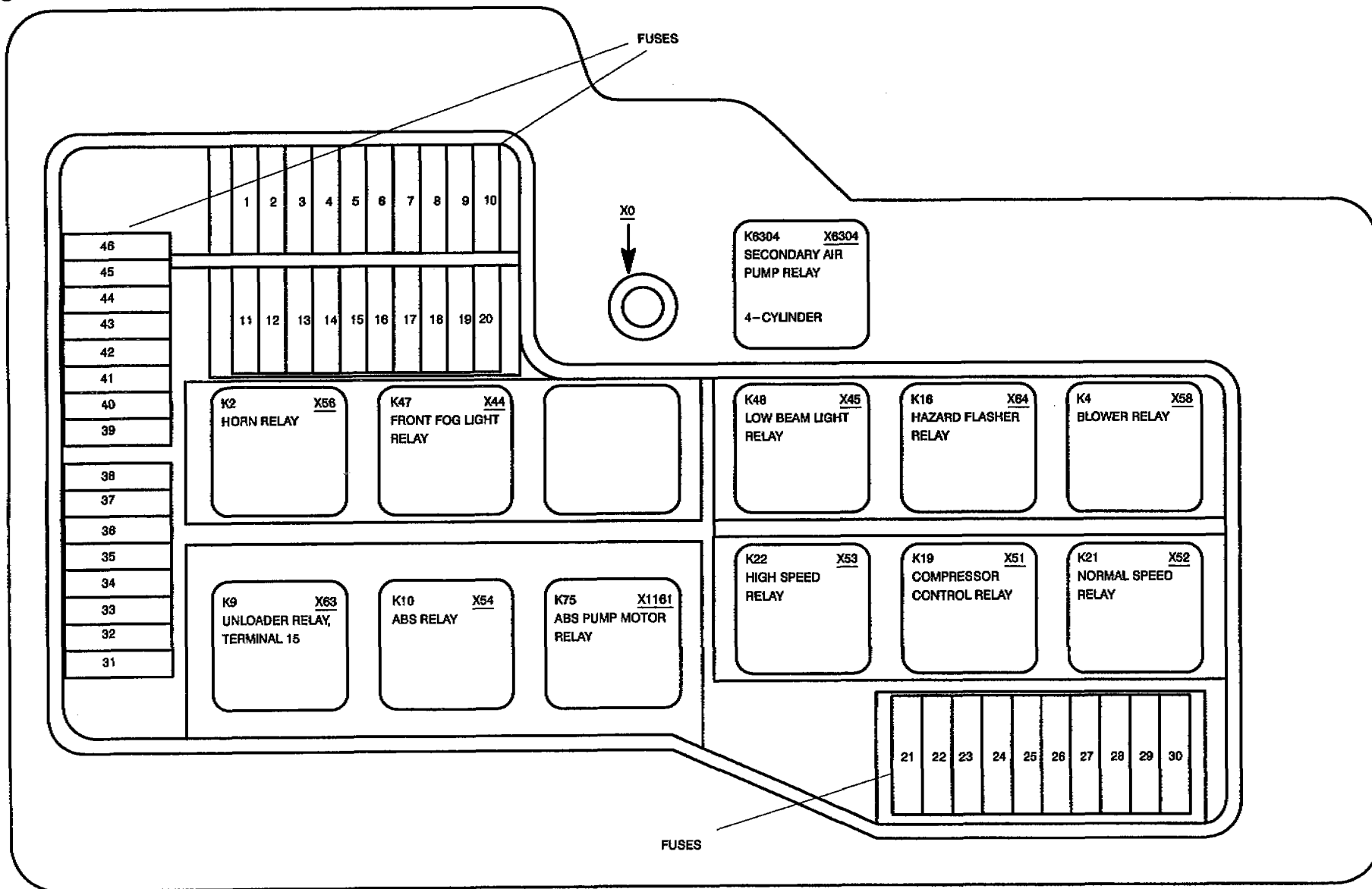


1.5 BR



ARROW SHOWS
DIRECTION OF
CURRENT FLOW
AND IS REPEATED
WHERE CURRENT
PATH CONTINUES

POWER DISTRIBUTION CHART
FRONT POWER DISTRIBUTION BOX

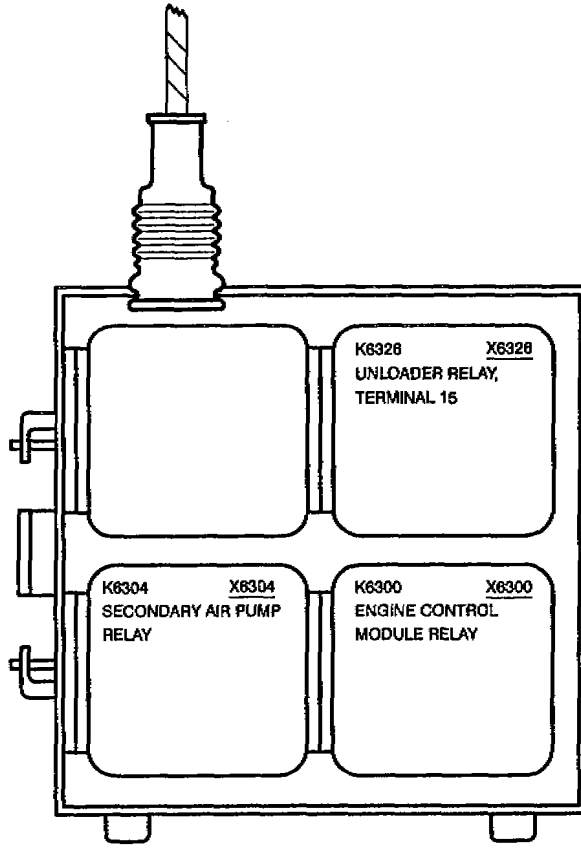




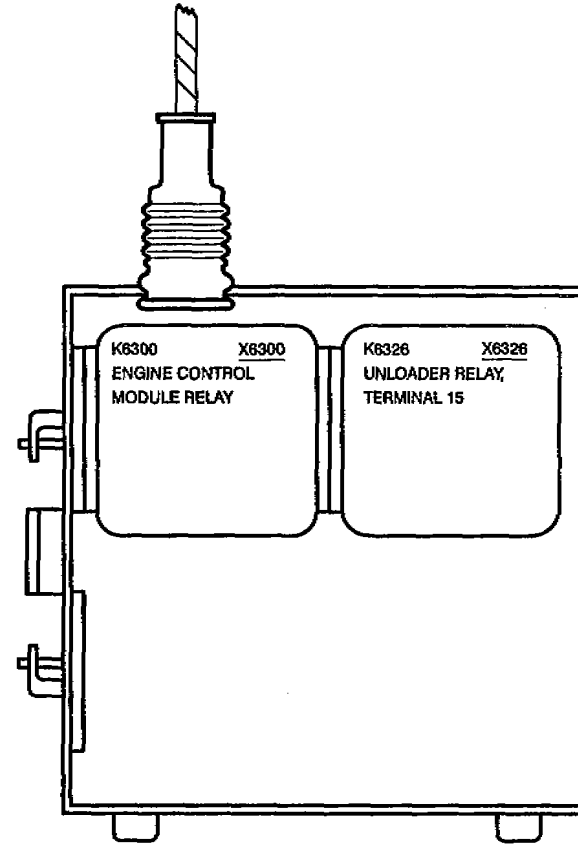
POWER DISTRIBUTION CHART

IN E-BOX

Z3



6-CYLINDER

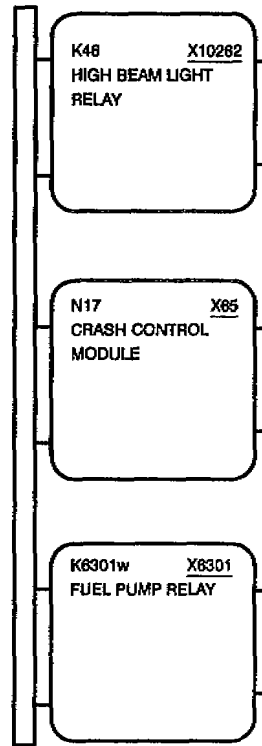


4-CYLINDER



POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD





FUSE CHART

FUSES 1 TO 29

Z3

	FUSE NUMBER																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
	30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A		15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A	
1210.17 ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)													●			●		●												
1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)													●			●		●												
1230.0 CHARGING SYSTEM																											●			
1240.0 START																													●	
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																											●		●	
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																								●			●			
3450.1 SLIP CONTROL (ABS/ASC)										●											●									
5116.0 POWER MIRRORS																									●			●		
5126.0 ZKE CENTRAL LOCKING (ZV)							●																							
5133.0 ZKE POWER WINDOWS (FH)															●															
5200.0 POWER SEATS					●															●										
5203.0 HEATED SEATS				●																			●							
5430.0 ELECTRO-MECHANICAL CONVERTIBLE TOP	●																													
6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)															●															
6133.0 HORN							●																							
6135.0 DRIVE-AWAY PROTECTION (EWS II)																													●	
6160.1 WIPER/WASHER MODULE (WWM)			●																											
6167.1 HEADLIGHT WASHER (SRA)			●																											
6169.0 WINDSHIELD WASHER JET HEATERS																									●					
6211.0 INSTRUMENT CLUSTER																							●					●		
6213.3 DIGITAL CLOCK																														



FUSE CHART

FUSES 1 TO 29

Z3

	FUSE NUMBER																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A		15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6300.0 LIGHT SWITCH DETAILS																						●	●		●				
6312.0 HEADLIGHTS/FOG LIGHTS											●	●			●								●	●		●			●
6313.0 TURN/HAZARD LIGHTS																								●					
6314.0 PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0 BACK UP LIGHTS																											●		
6325.0 BRAKE LIGHTS																													
6330.3 INTERIOR LIGHTS																													
6332.0 INTERIOR ACCESSORIES																													
6350.0 CRASH CONTROL MODULE											●	●														●			
6424.0 REAR WINDOW DEFOGGER						●																							
6450.6 INTEGRATED HEATING- AND CLIMATE CONTROL																●					●								
6510.1 RADIO/HIFI									●																				
6561.0 CELLULAR TELEPHONE (PROVISIONS)																													
6571.0 CRUISE CONTROL (TEMPOMAT)																													
6575.2 ANTI-THEFT SYSTEM (ALPINE)																													●
6581.3 ON-BOARD COMPUTER (BC-LOW)																													



FUSE CHART

Z3

FUSES 30 TO 48

	FUSE NUMBER																		
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		40A
1210.17 ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)										●									
1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)																			
1230.0 CHARGING SYSTEM																			
1240.0 START		●														●			
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●		
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)												●	●						
3450.1 SLIP CONTROL (ABS/ASC)										●							●		
5116.0 POWER MIRRORS																			
5126.0 ZKE CENTRAL LOCKING (ZV)						●								●					
5133.0 ZKE POWER WINDOWS (FH)																			
5200.0 POWER SEATS																			
5203.0 HEATED SEATS																			
5430.0 ELECTRO-MECHANICAL CONVERTIBLE TOP																	●		
6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●					
6133.0 HORN																			
6135.0 DRIVE-AWAY PROTECTION (EWS II)		●														●			
6160.1 WIPER/WASHER MODULE (WWM)							●	●							●				
6167.1 HEADLIGHT WASHER (SRA)							●								●				
6169.0 WINDSHIELD WASHER JET HEATERS																			
6211.0 INSTRUMENT CLUSTER		●															●		
6213.3 DIGITAL CLOCK		●														●			



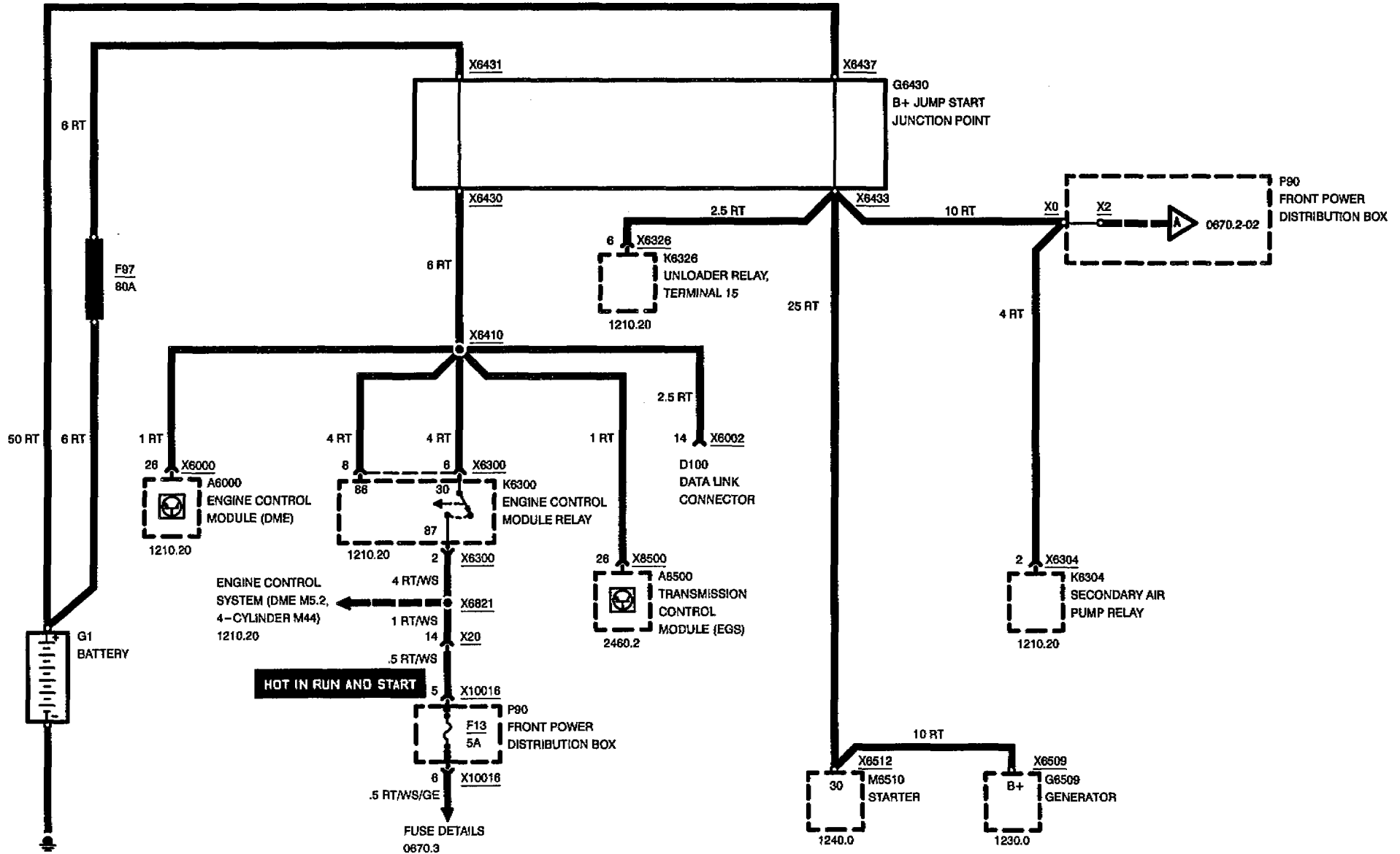
FUSE CHART

FUSES 30 TO 48

Z3

		FUSE NUMBER																		
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		
6300.0	LIGHT SWITCH DETAILS				●				●											
6312.0	HEADLIGHTS/FOG LIGHTS	●																		
6313.0	TURN/HAZARD LIGHTS					●														
6314.0	PARK/TAIL/UNDERHOOD LIGHTS				●				●											
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS				●				●											
6322.0	BACK UP LIGHTS																			
6325.0	BRAKE LIGHTS																	●		
6330.3	INTERIOR LIGHTS				●										●					
6332.0	INTERIOR ACCESSORIES			●					●											
6350.0	CRASH CONTROL MODULE					●														
6424.0	REAR WINDOW DEFOGGER																			
6450.6	INTEGRATED HEATING- AND CLIMATE CONTROL										●	●								●
6510.1	RADIO/HIFI															●				
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●											●				
6571.0	CRUISE CONTROL (TEMPOMAT)																	●		
6575.2	ANTI-THEFT SYSTEM (ALPINE)		●												●					
6581.3	ON-BOARD COMPUTER (BC-LOW)		●															●		

Z3

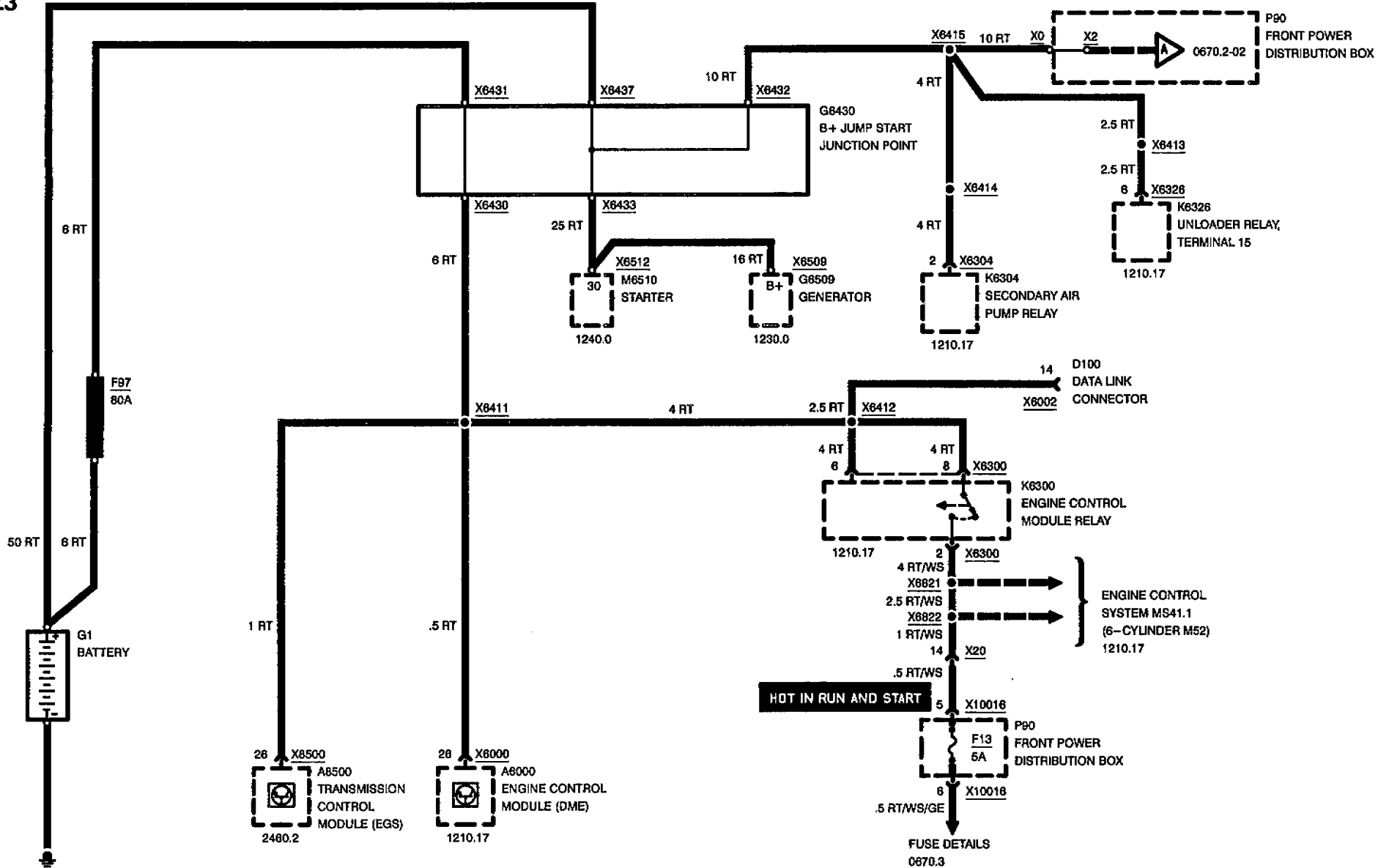




POWER DISTRIBUTION

6-CYLINDER

Z3



09/97

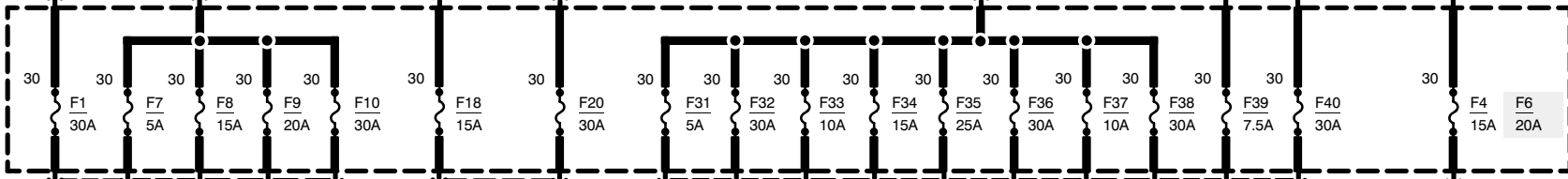
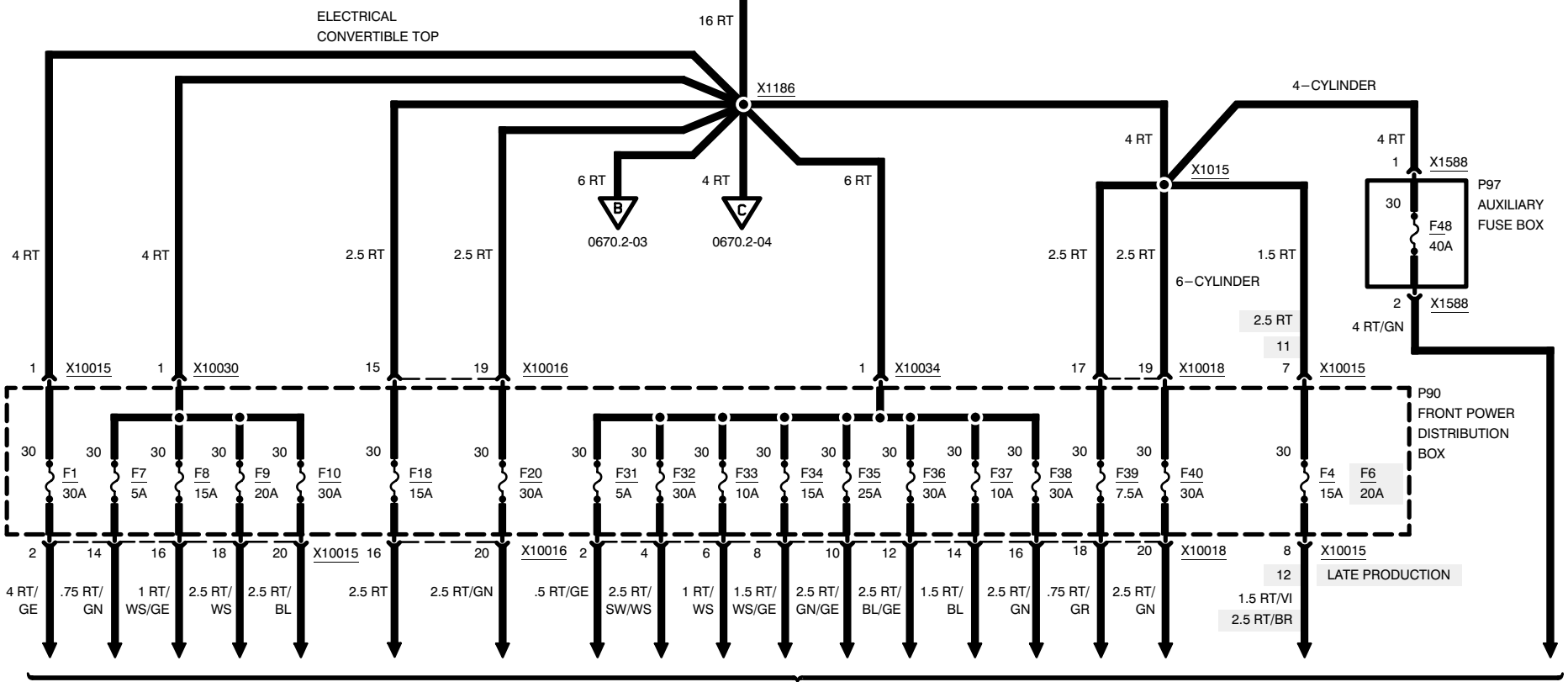
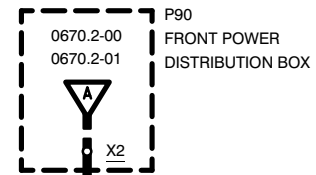
0670.2-01

1998



POWER DISTRIBUTION

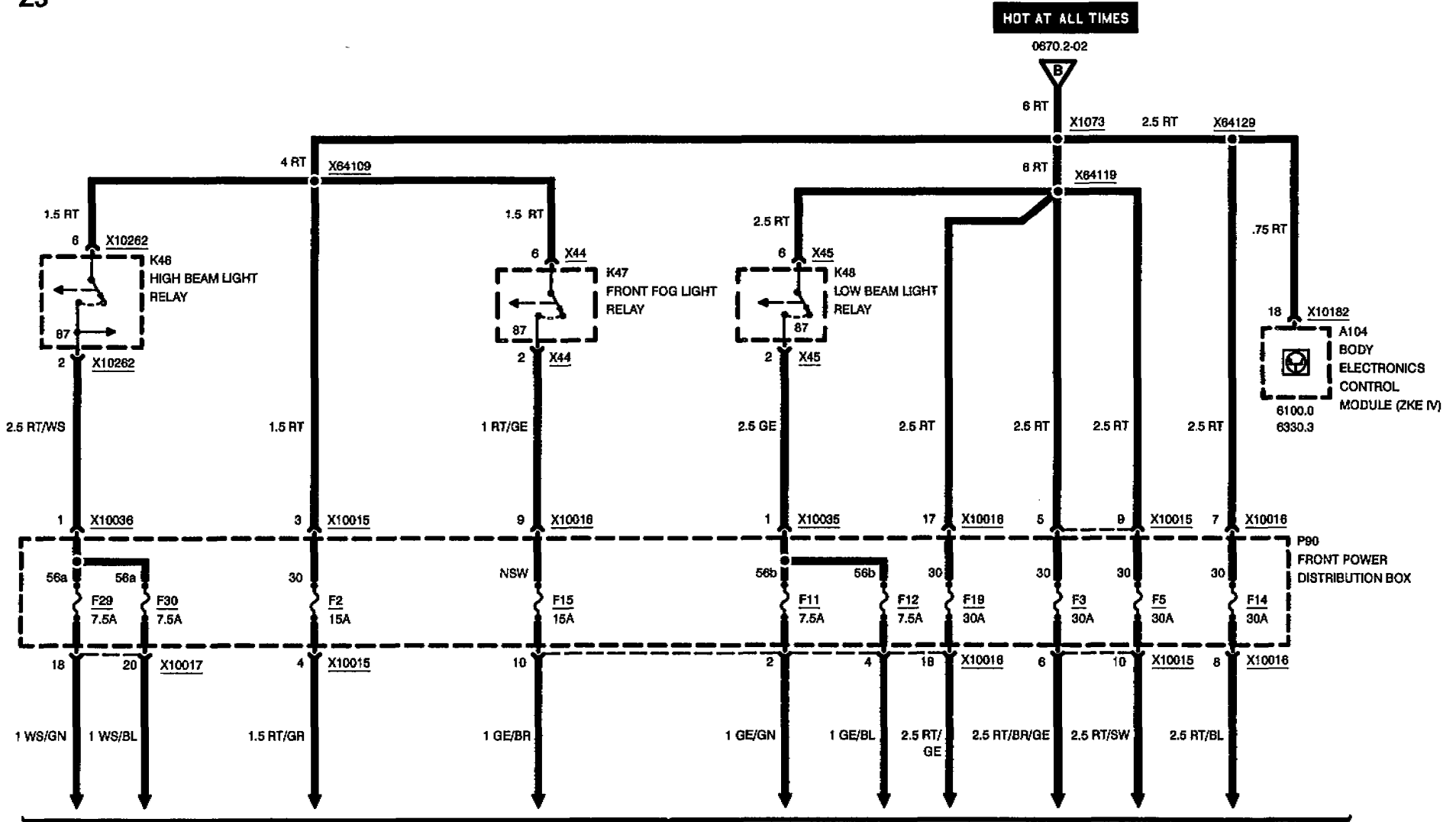
HOT AT ALL TIMES



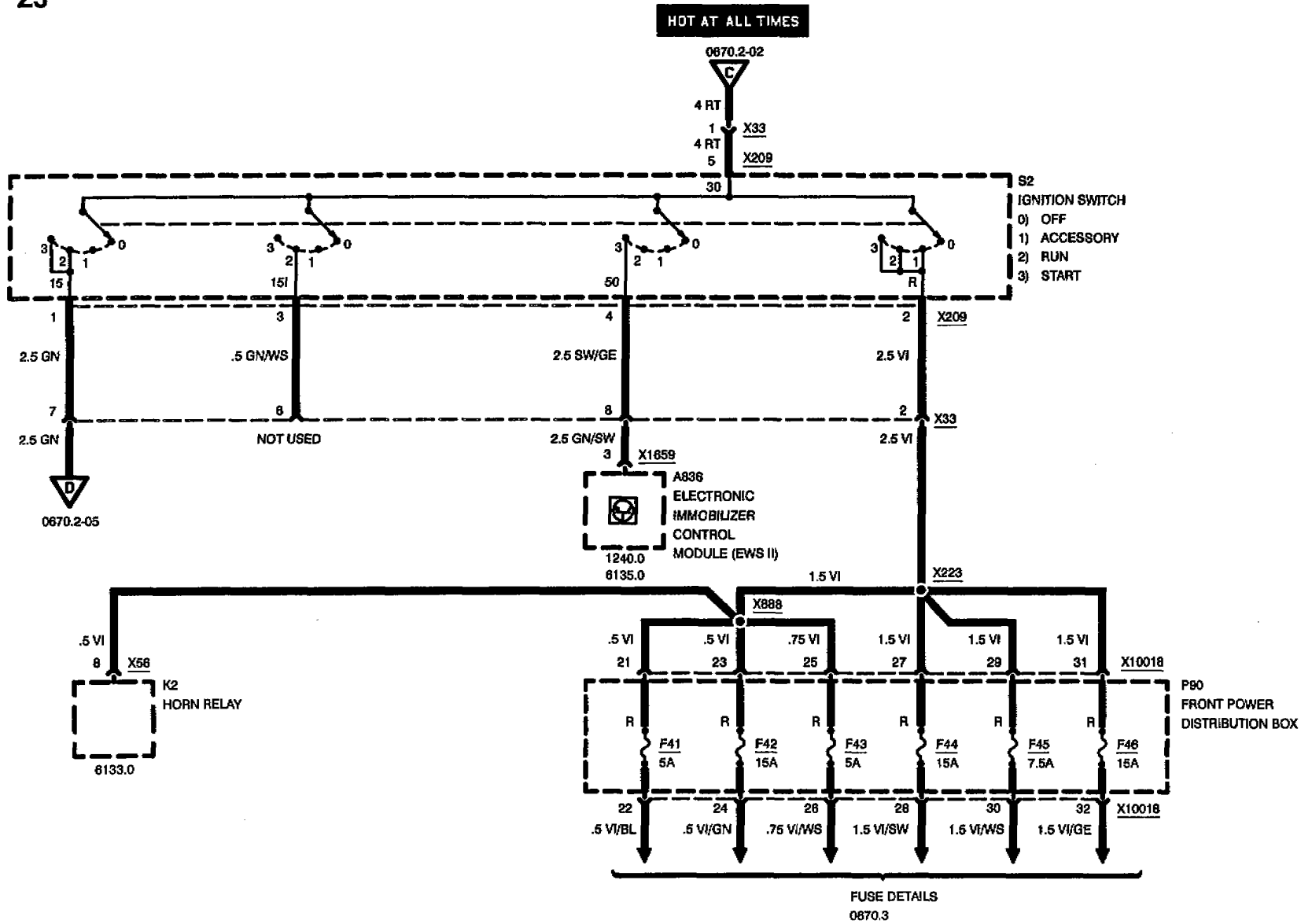
FUSE DETAILS
0670.3

03/98
0670.2-02
1998

POWER DISTRIBUTION

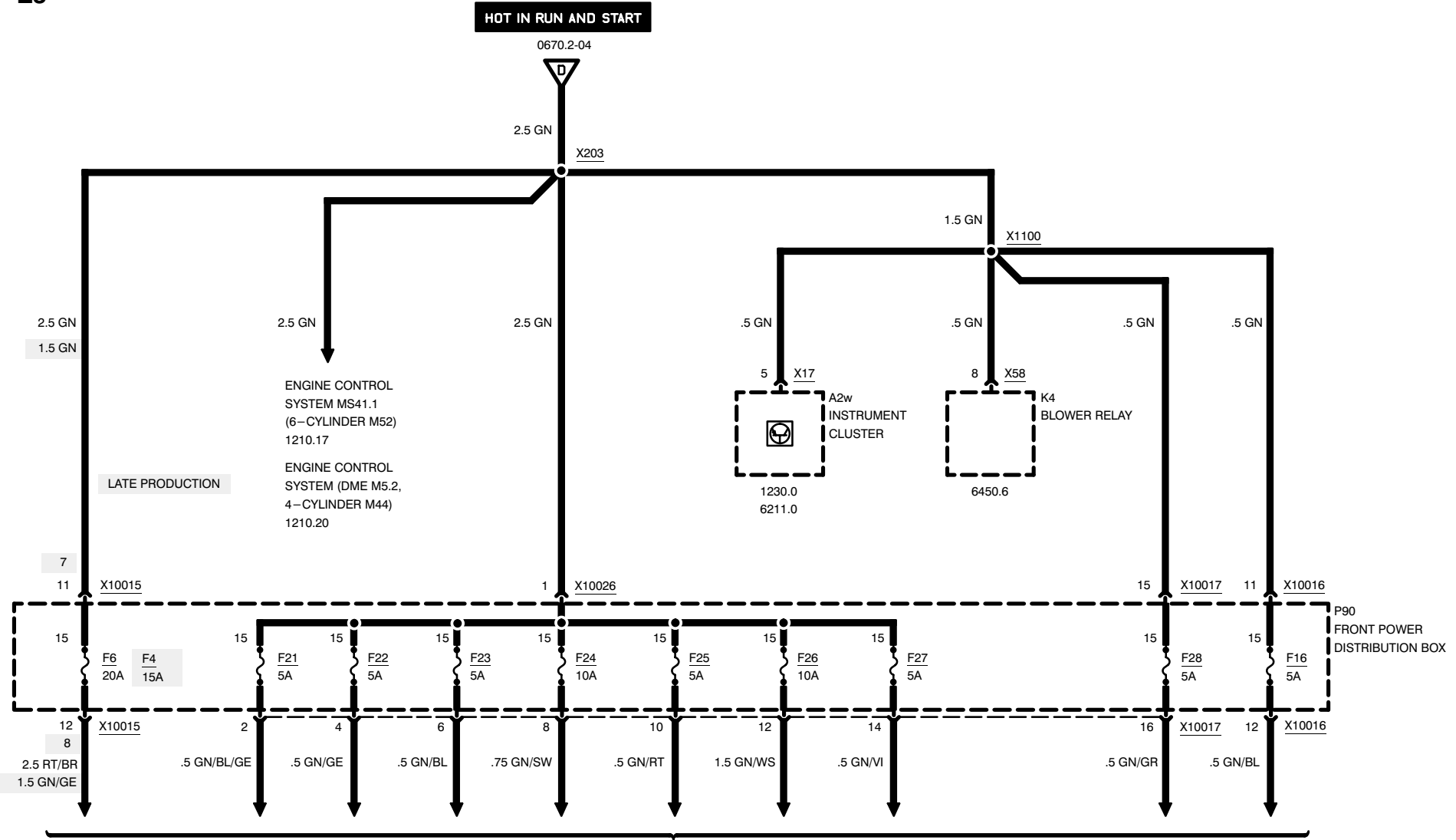


FUSE DETAILS
0670.3





POWER DISTRIBUTION



FUSE DETAILS
0670.3

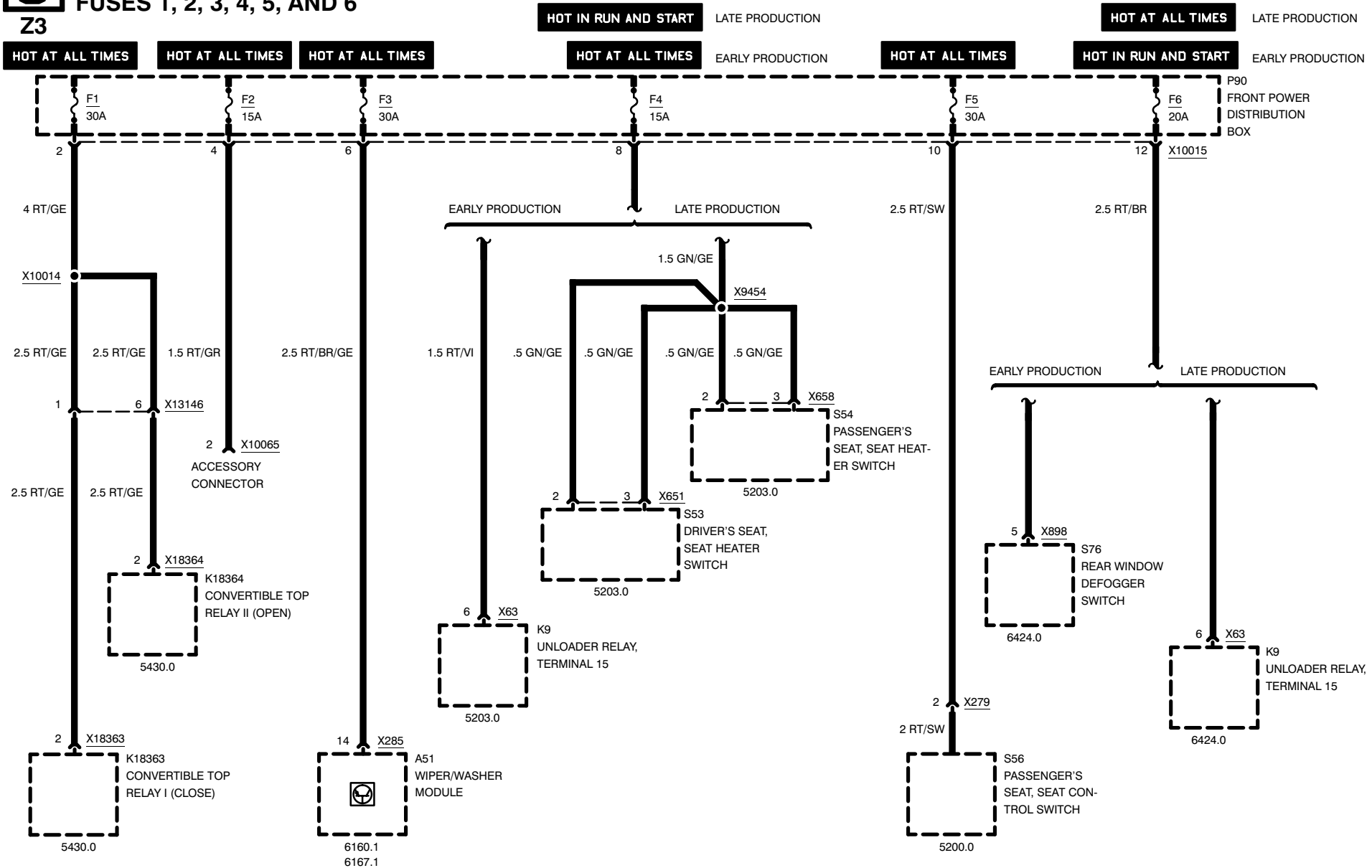
03/98
0670.2-05
1998



FUSE DETAILS

FUSES 1, 2, 3, 4, 5, AND 6

Z3

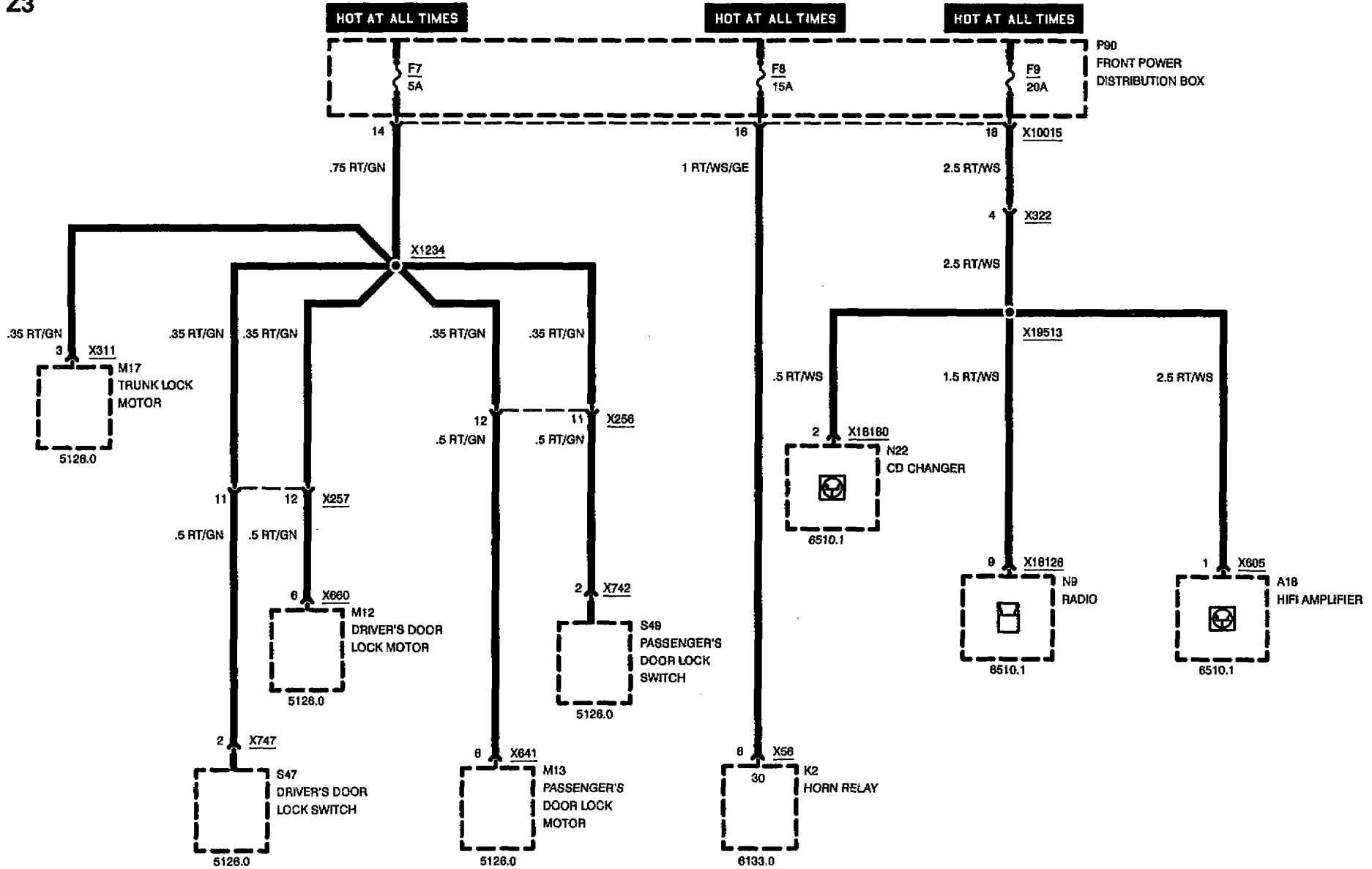




Z3

FUSE DETAILS

FUSES 7, 8, AND 9



09/97

0670.3-01

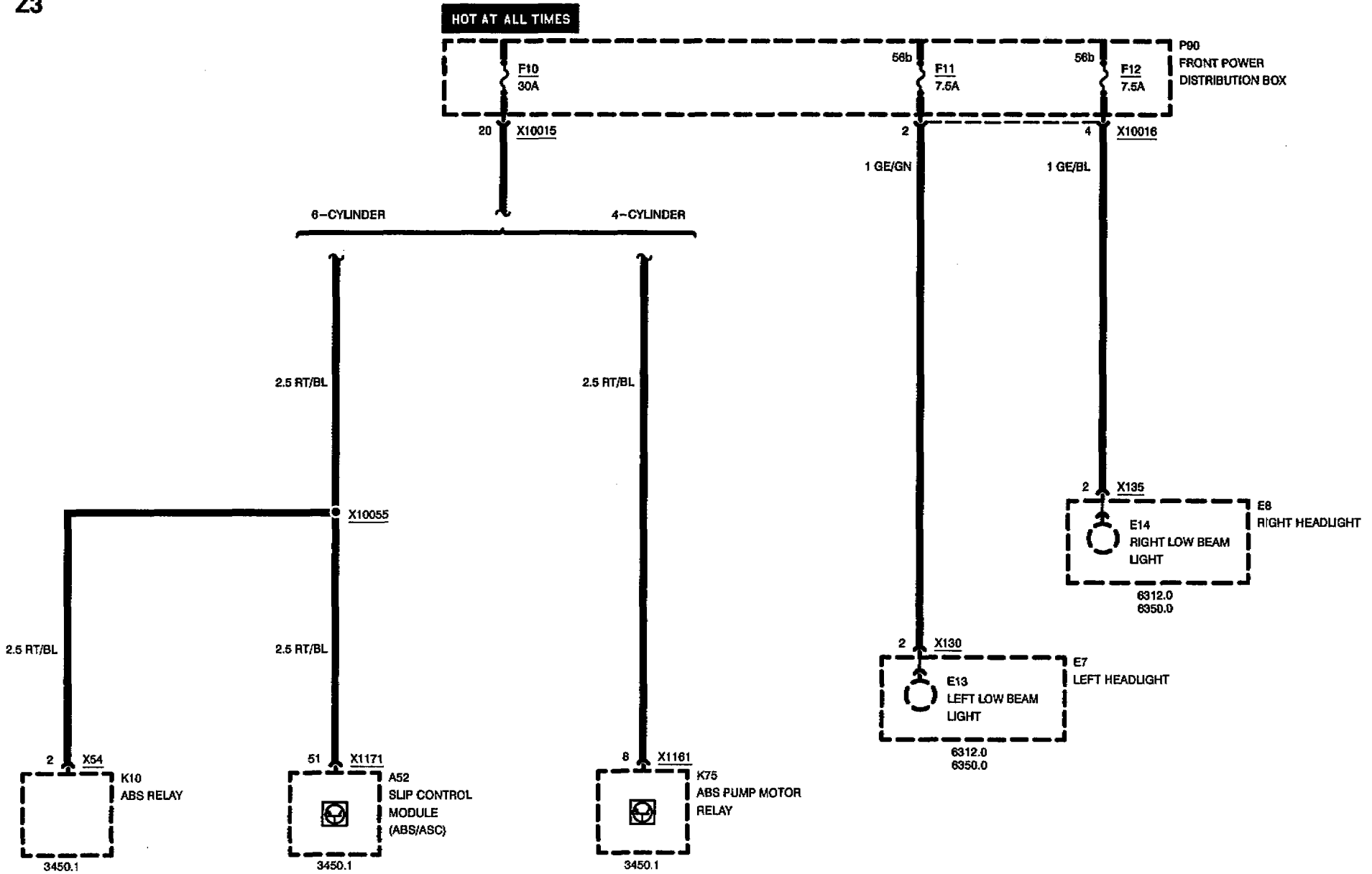
1998



FUSE DETAILS

FUSES 10, 11, AND 12

Z3

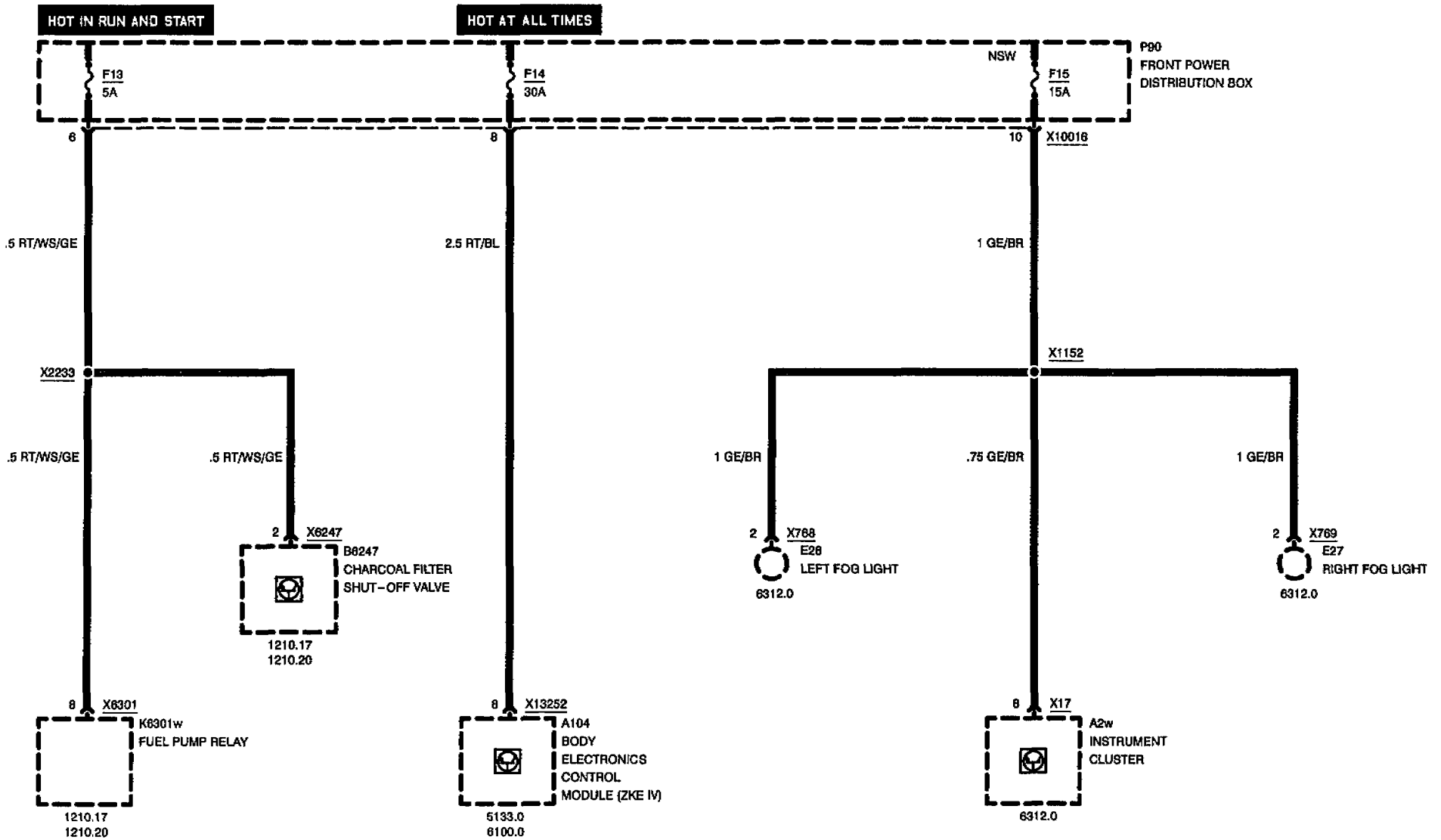


09/97

0670.3-02

1998

FUSE DETAILS
FUSES 13, 14, AND 15

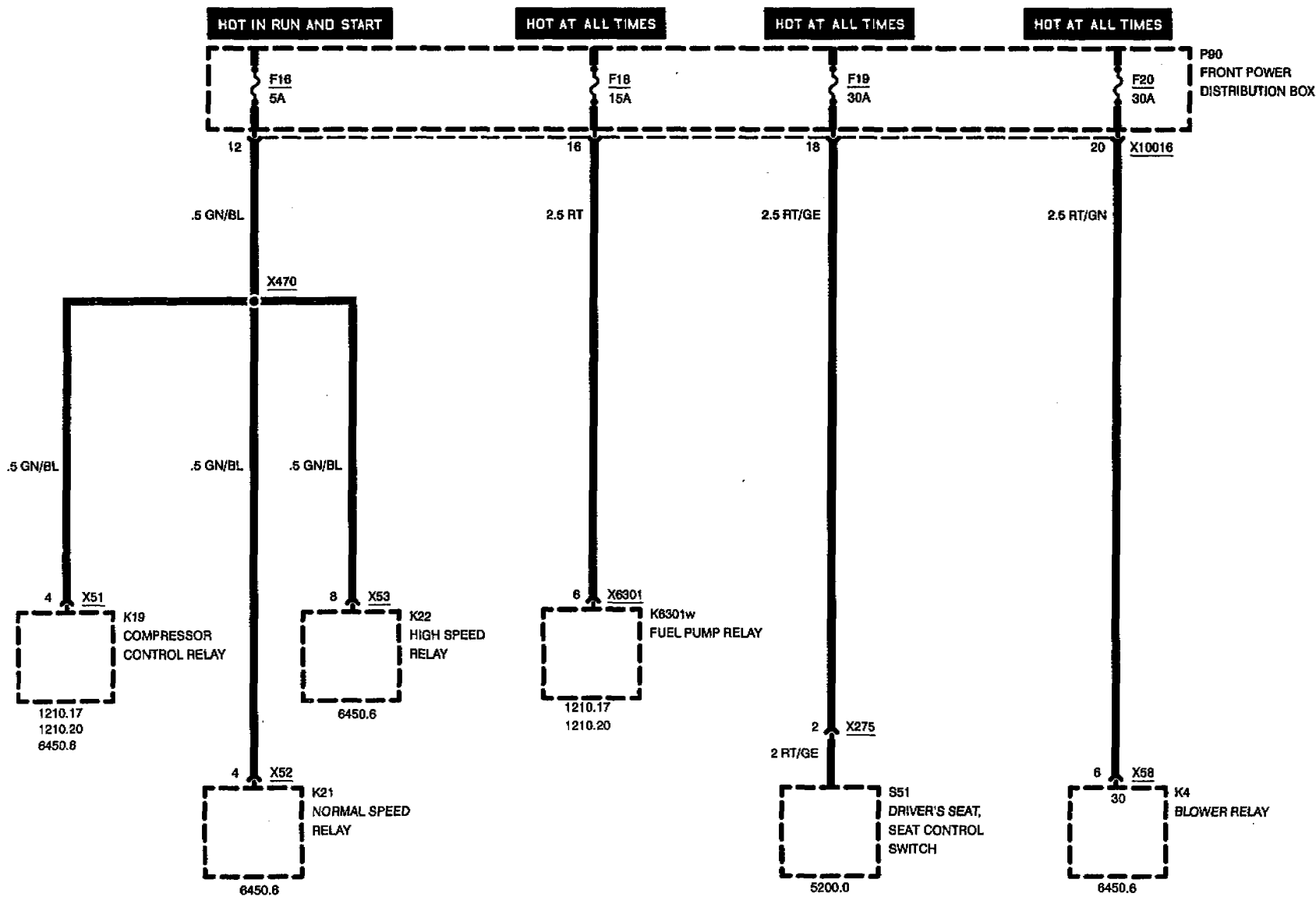




FUSE DETAILS

FUSES 16, 18, 19, AND 20

Z3



09/97

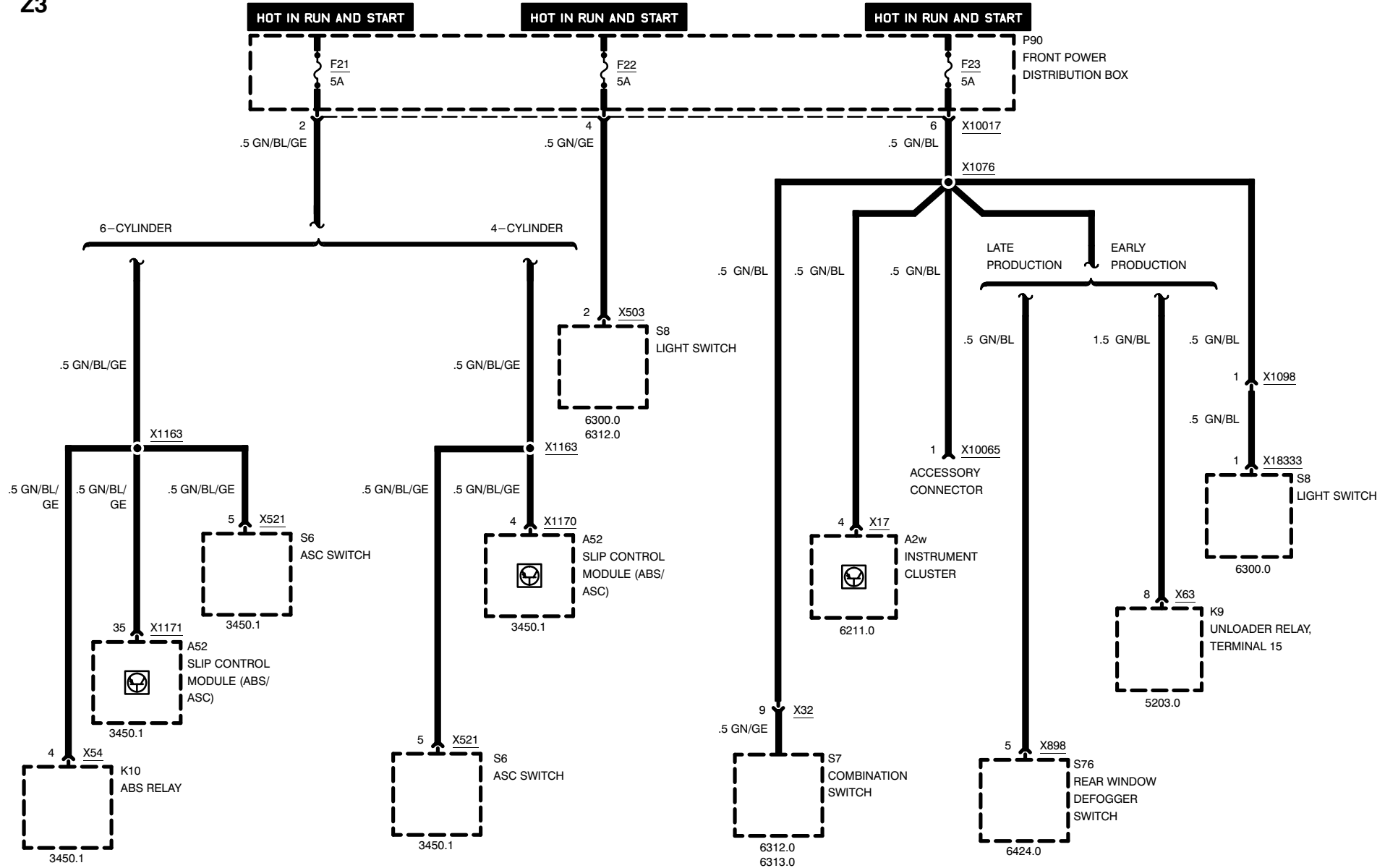
0670.3-04

1998



FUSE DETAILS

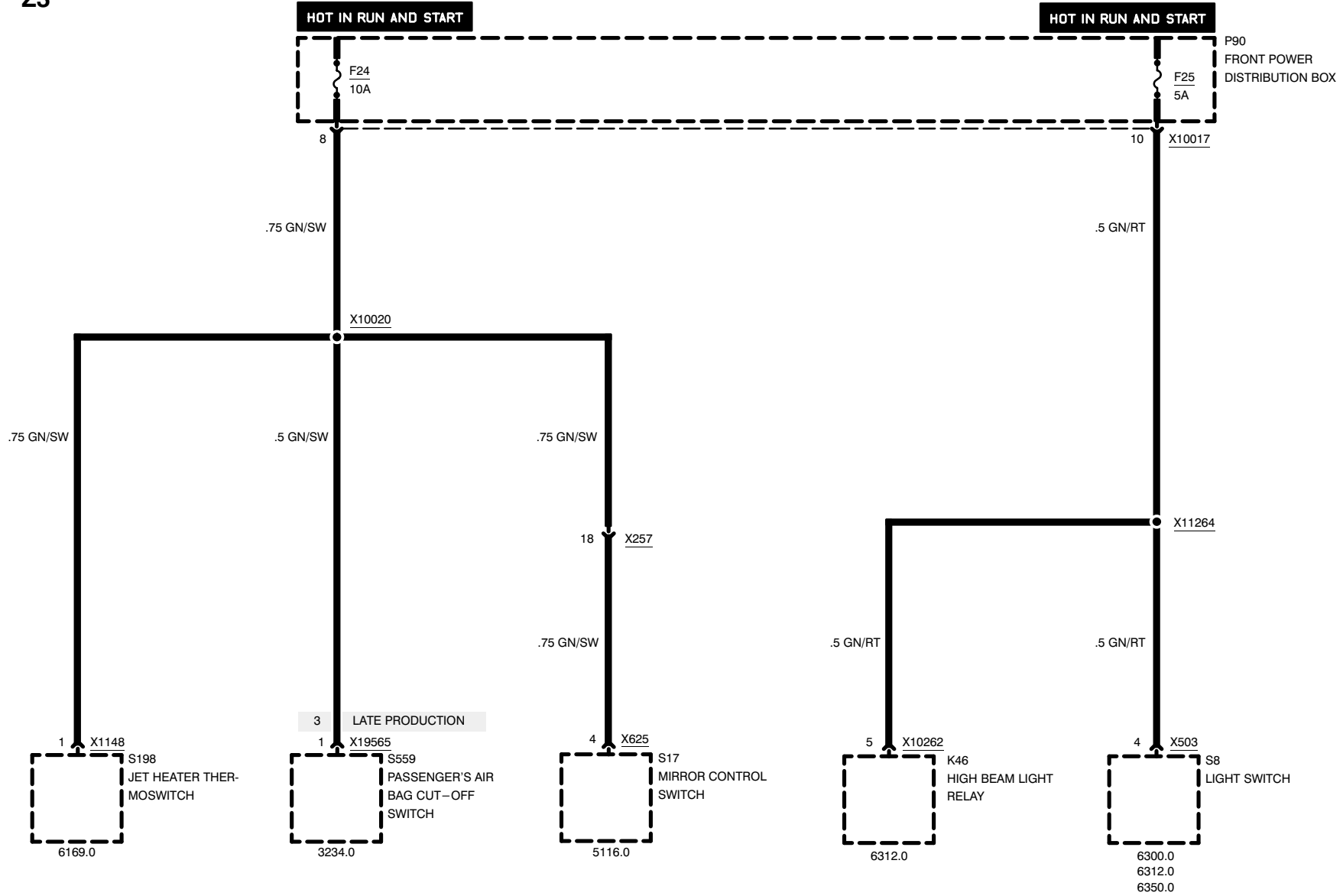
FUSES 21, 22, AND 23





FUSE DETAILS

FUSES 24 AND 25



03/98

0670.3-06

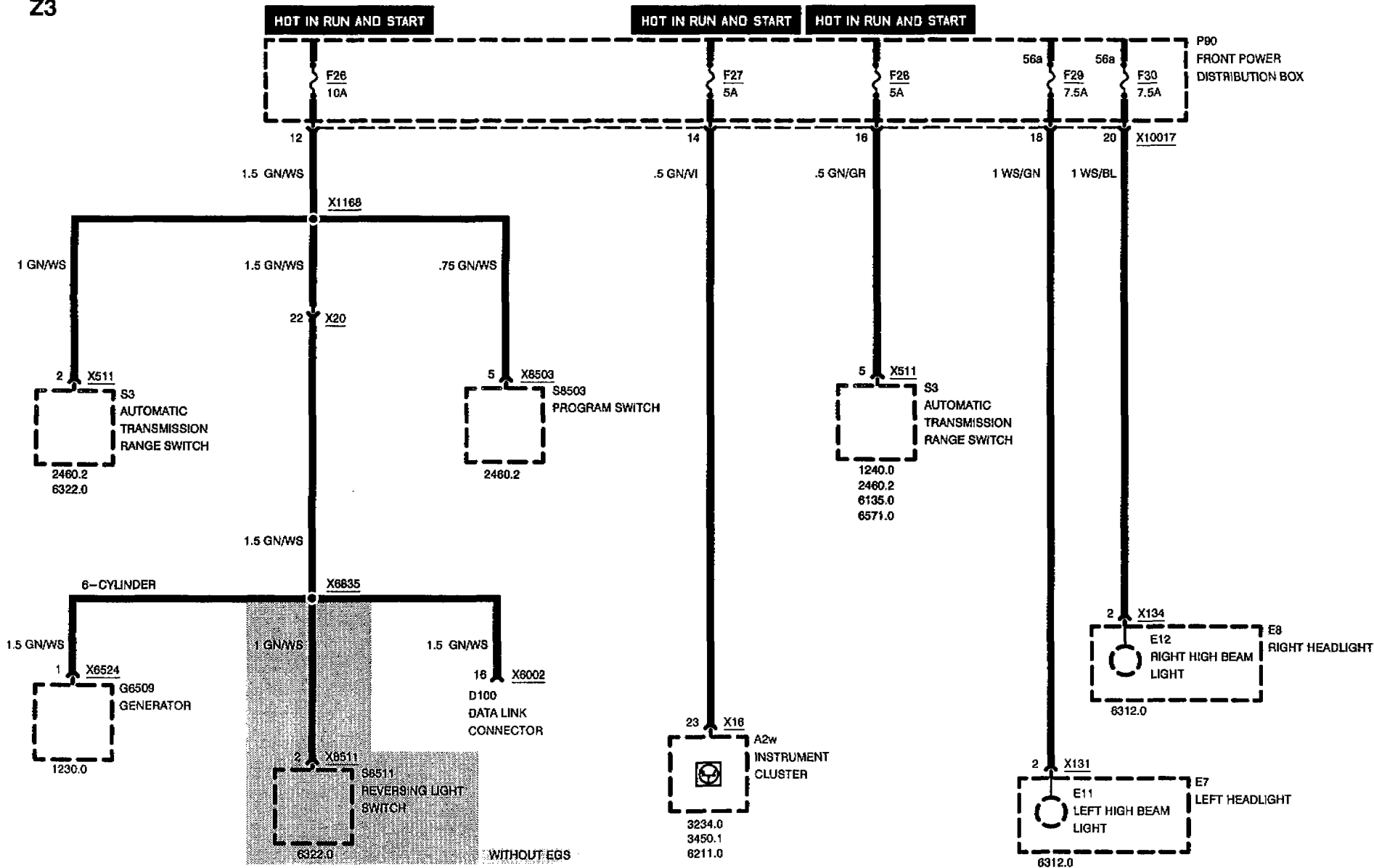
1998



FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30

Z3



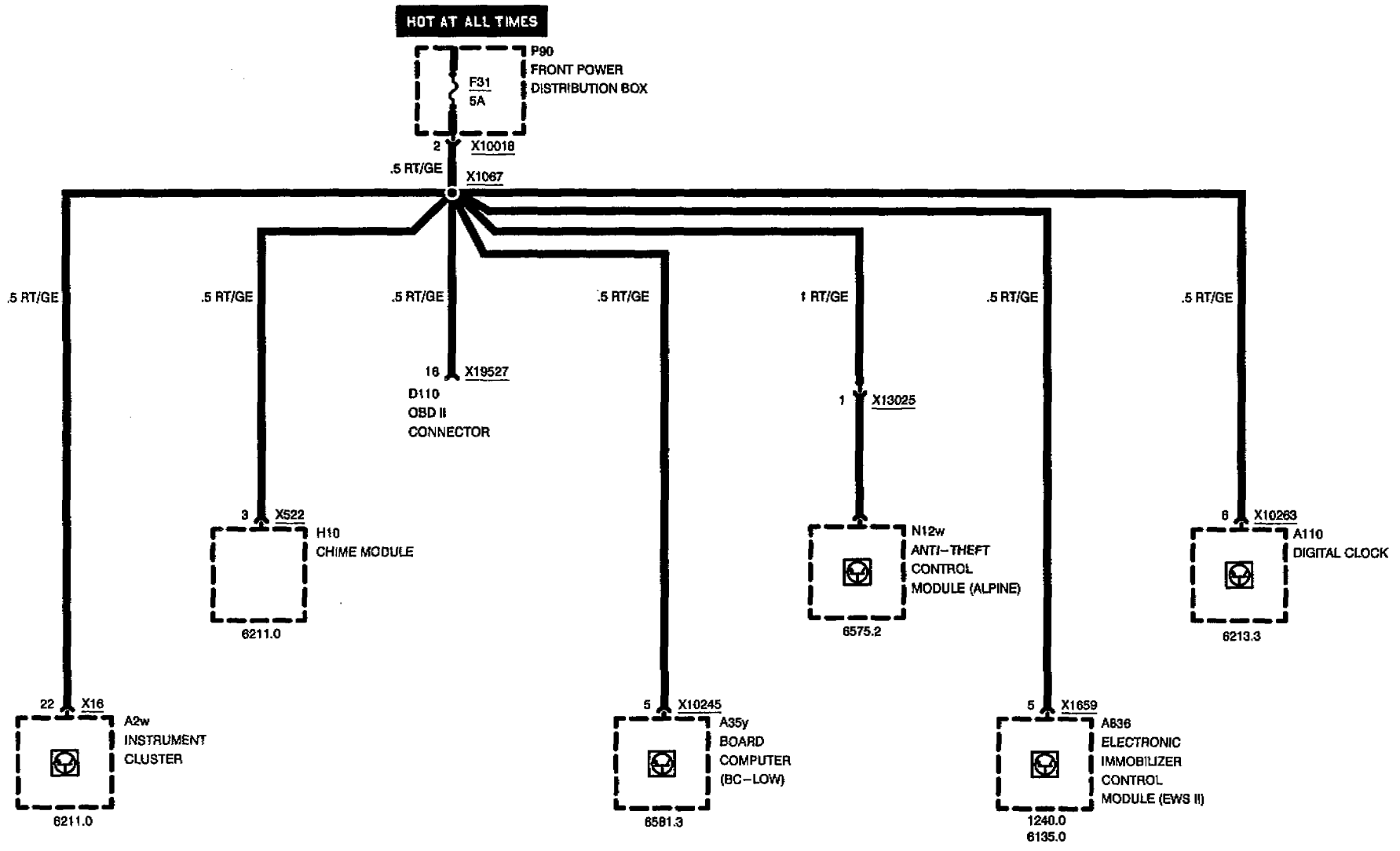
09/97

0670.3-07

1998

FUSE DETAILS

FUSE 31

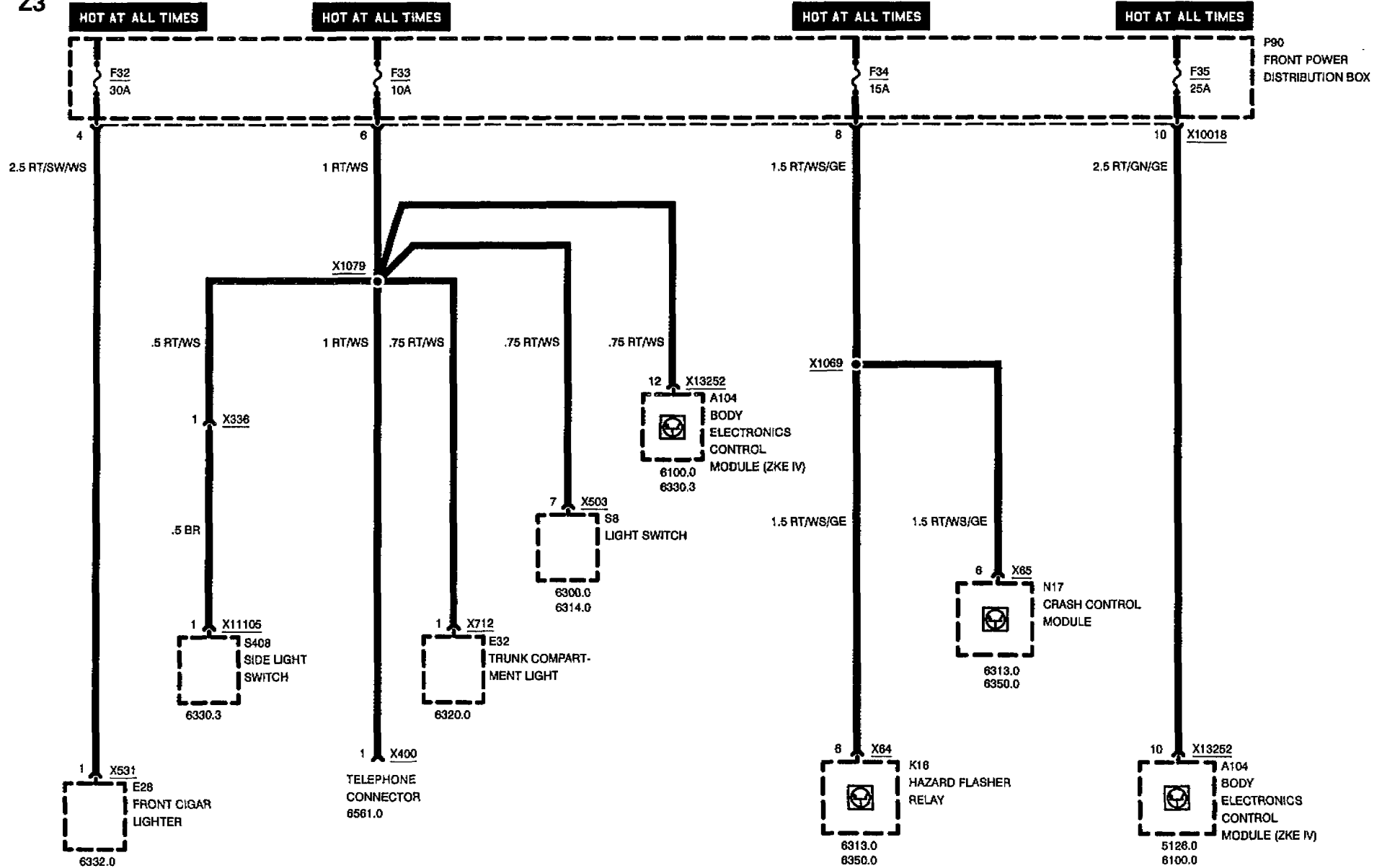




FUSE DETAILS

FUSES 32, 33, 34, AND 35

Z3



09/97

0670.3-09

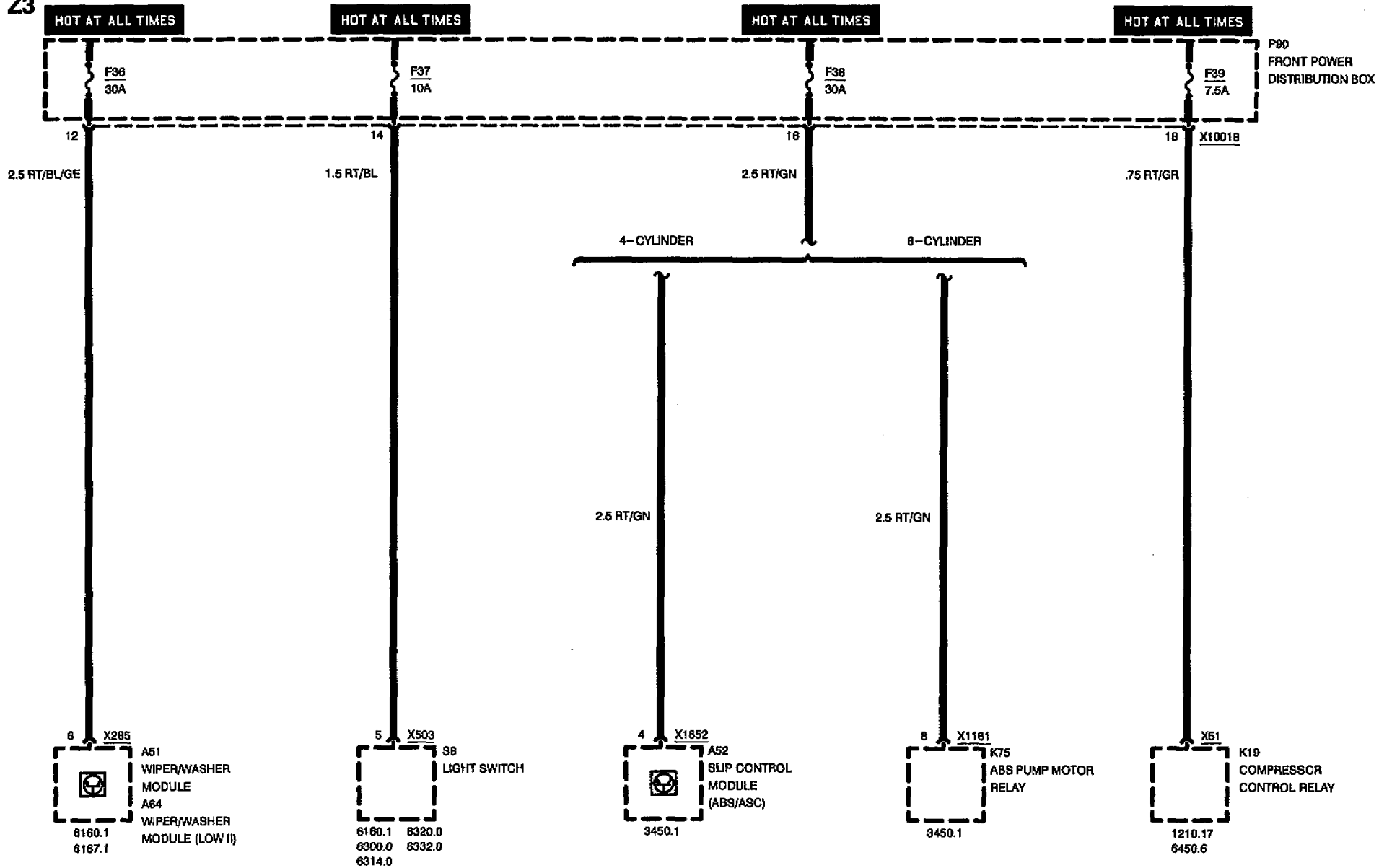
1998



FUSE DETAILS

FUSES 36, 37, 38, AND 39

Z3



09/97

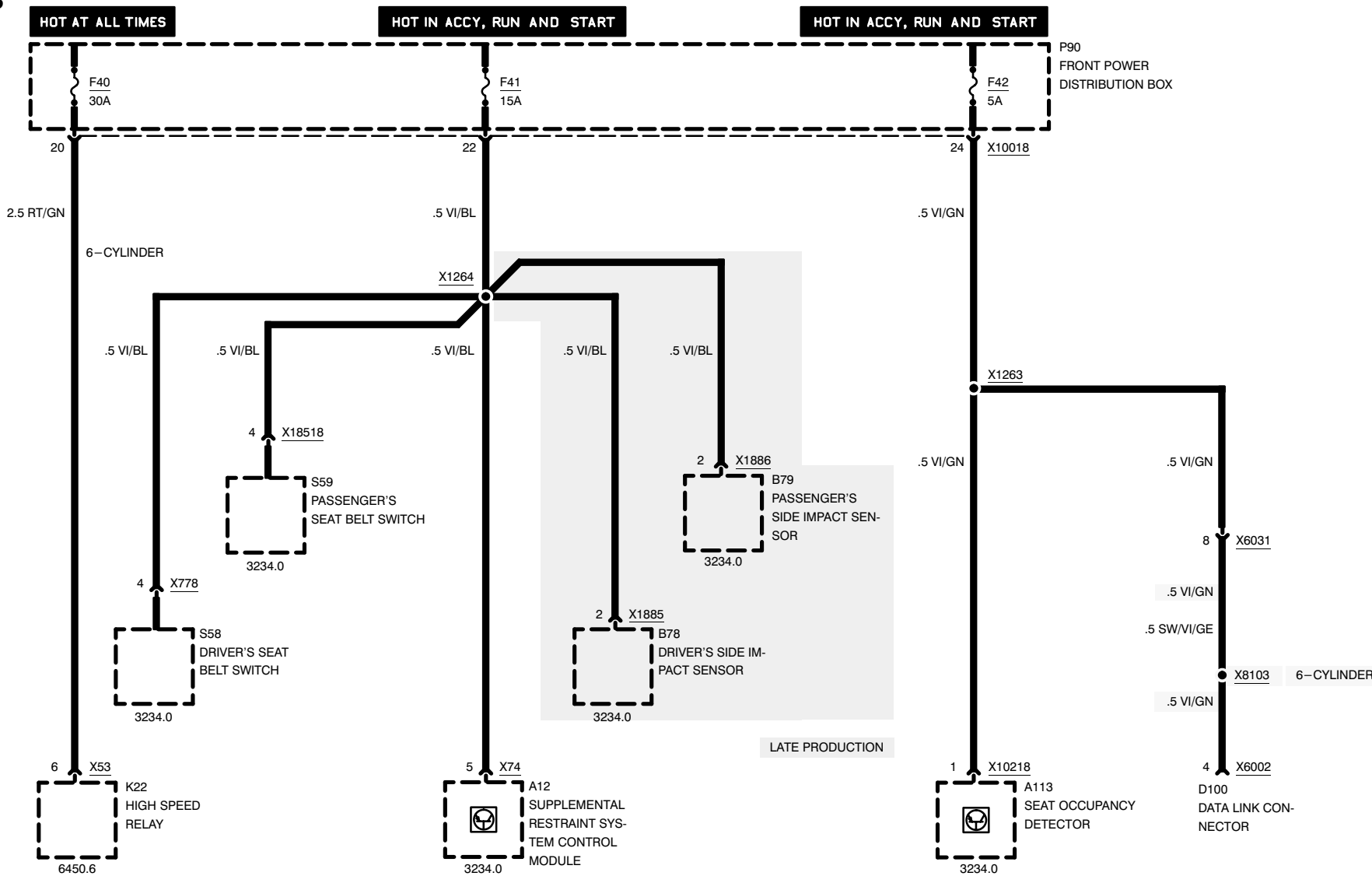
0670.3-10

1998



FUSE DETAILS

FUSES 40, 41, AND 42



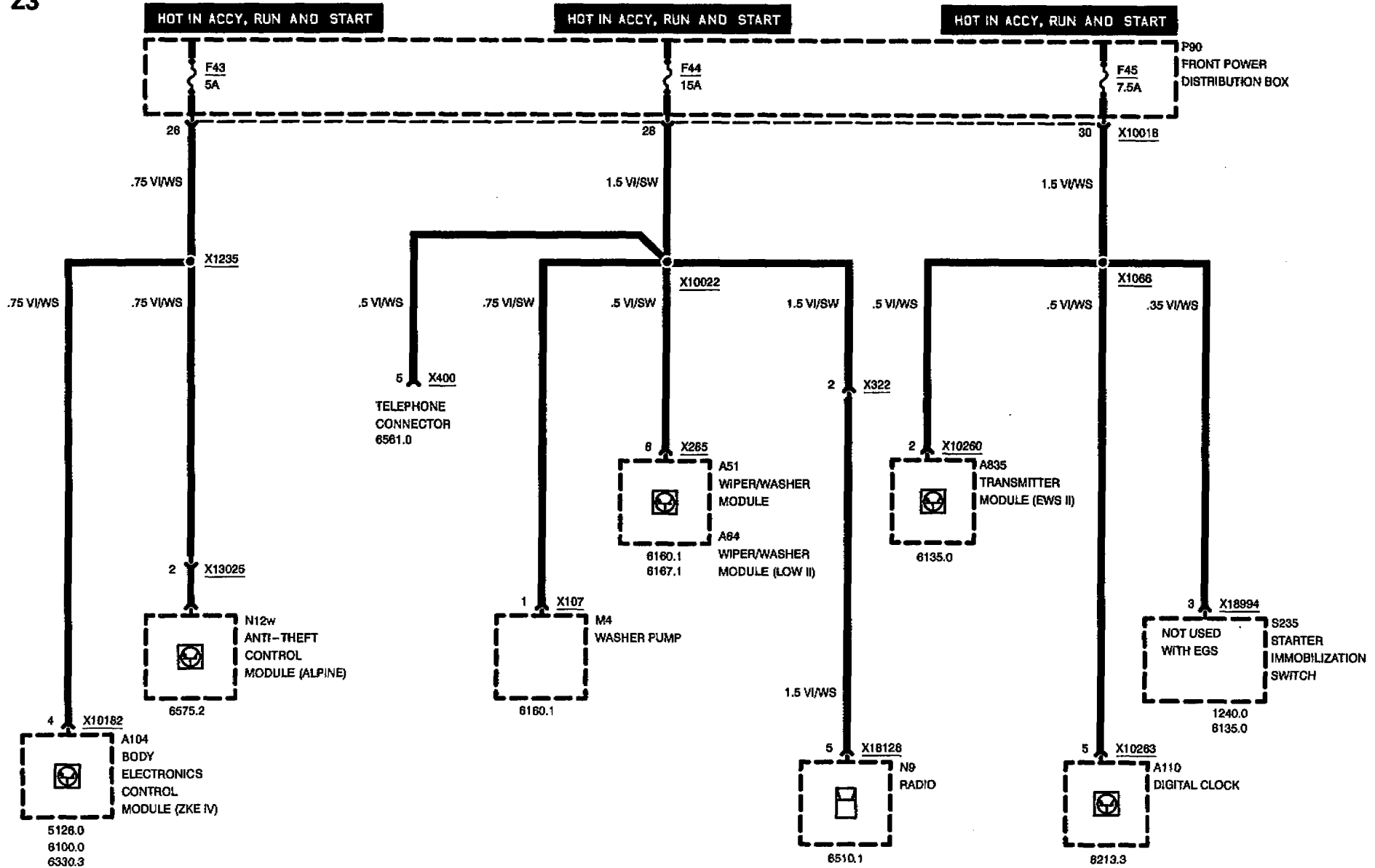
03/98
0670.3-11
1998



FUSE DETAILS

FUSES 43, 44, AND 45

Z3

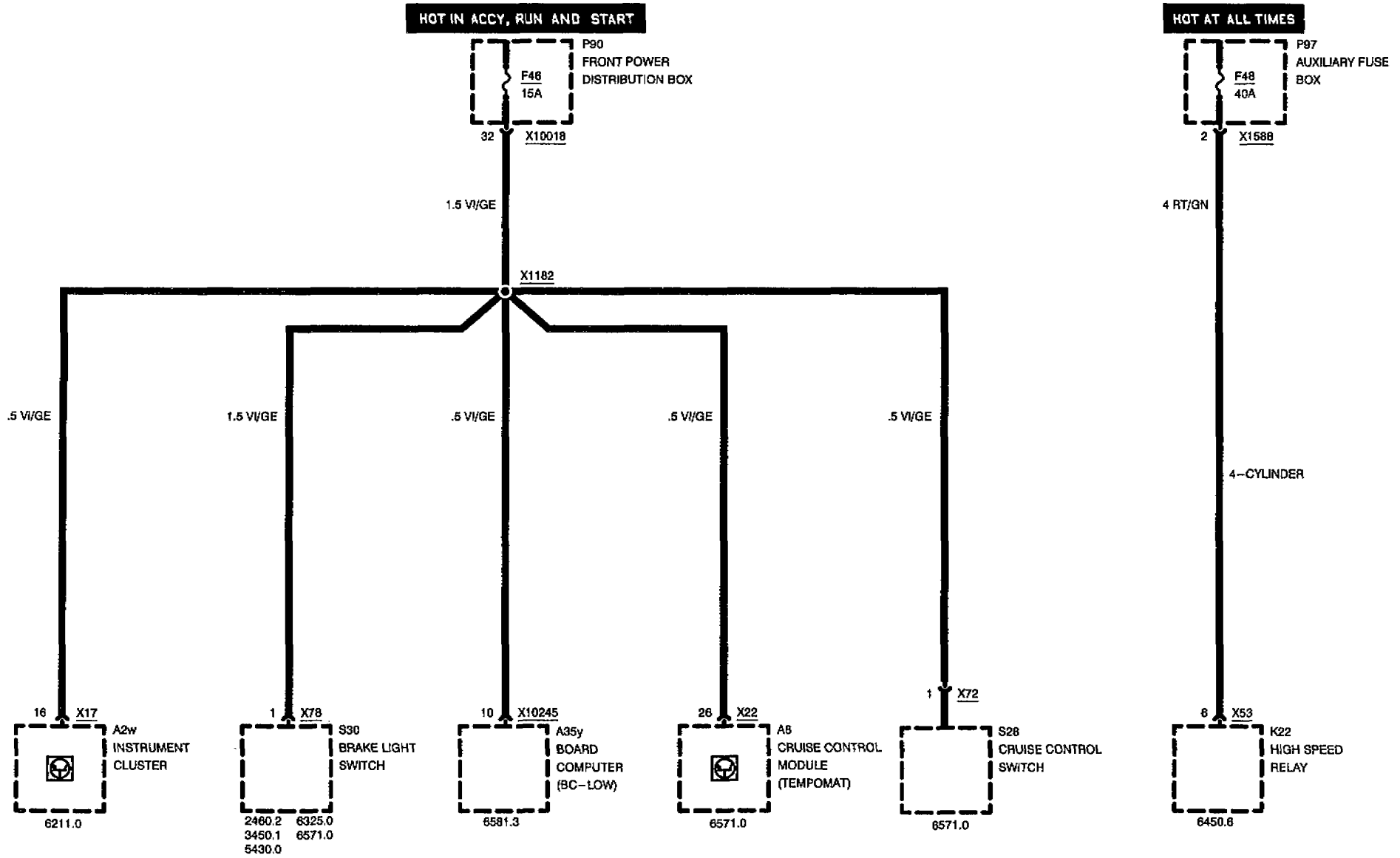




FUSE DETAILS

FUSES 46 AND 48

Z3



09/97

0670.3-13

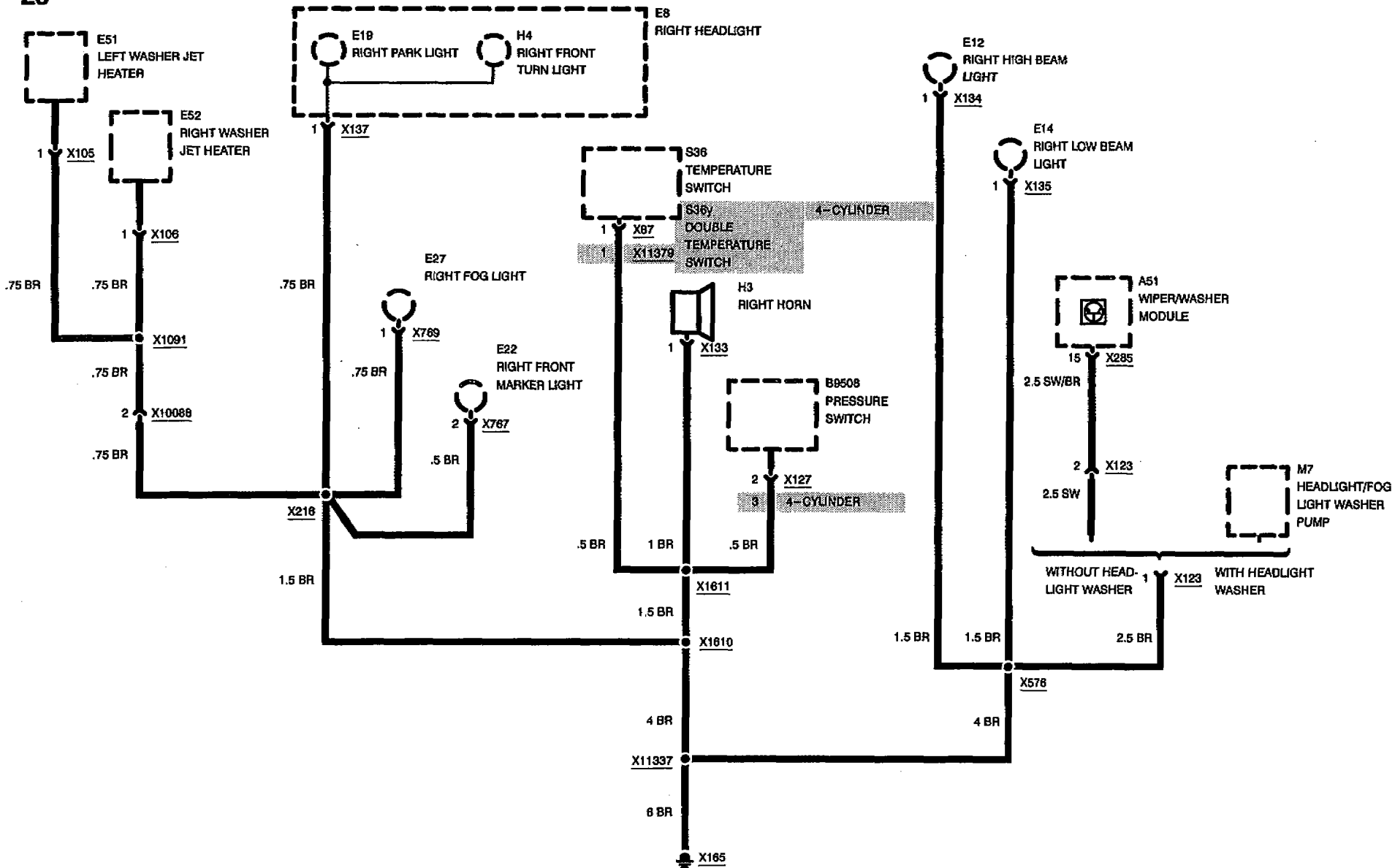
1998



GROUND DISTRIBUTION

GROUND X165

Z3



09/97

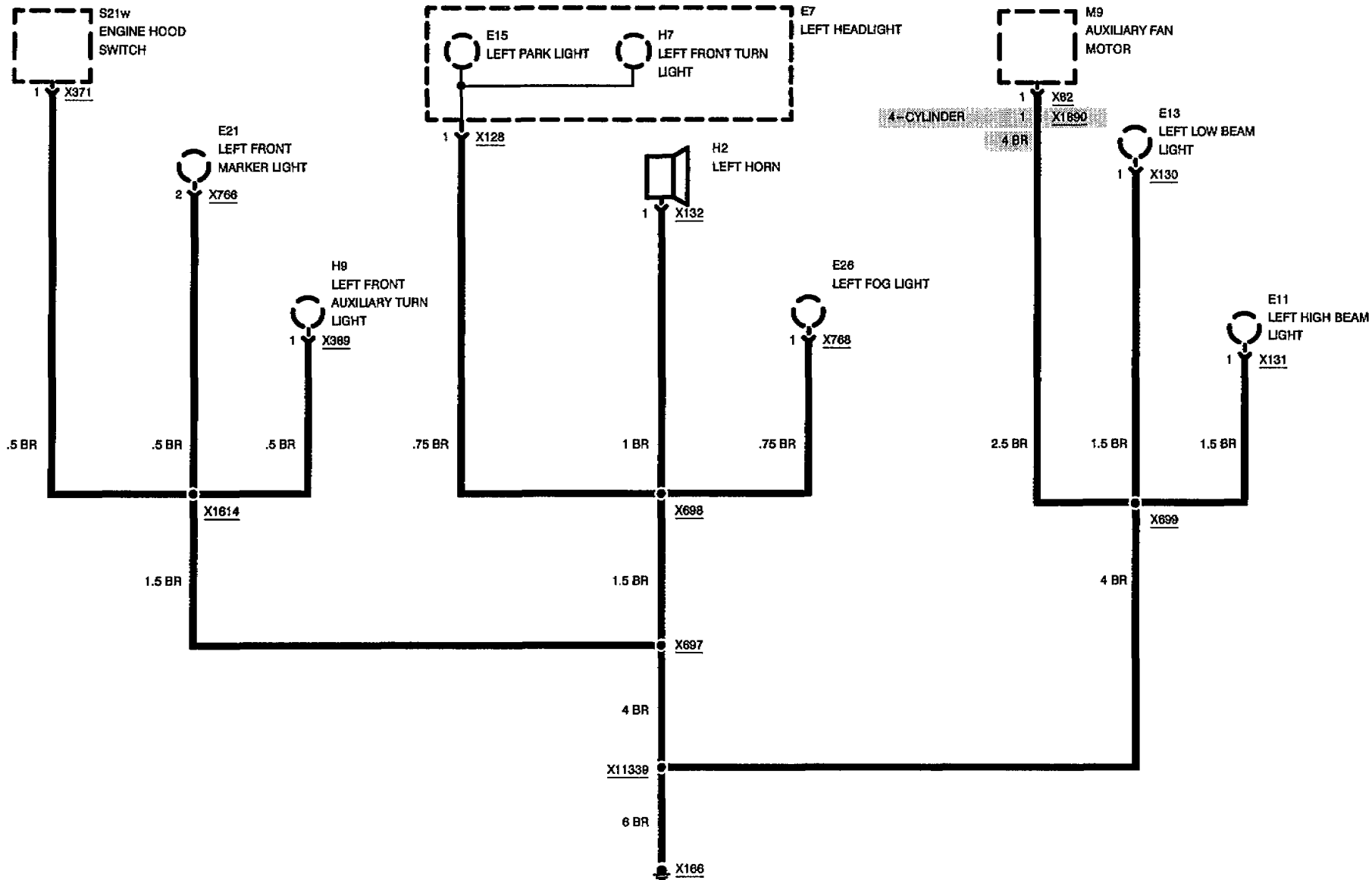
0670.4-00

1998:



GROUND DISTRIBUTION

GROUND X166

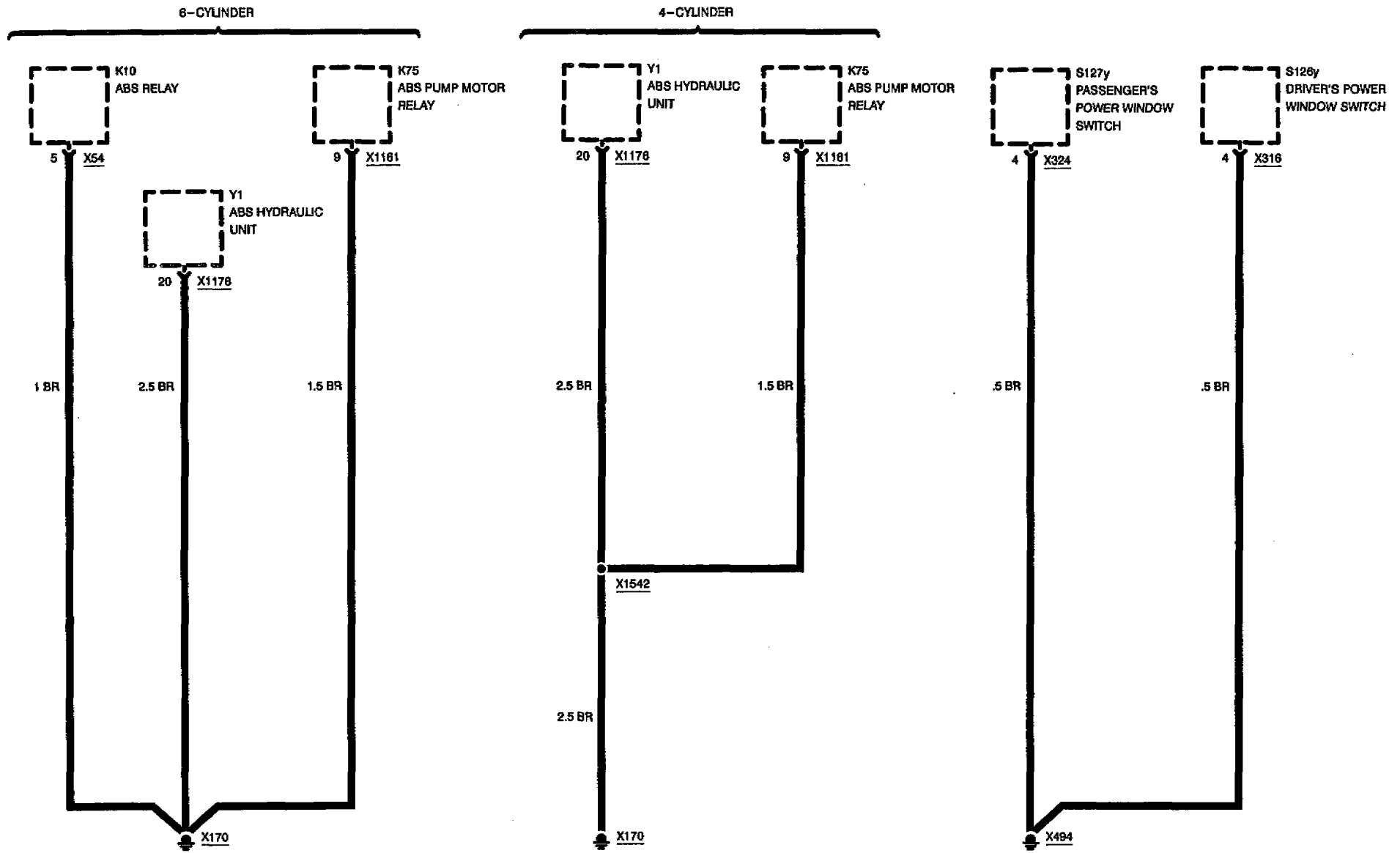




GROUND DISTRIBUTION

GROUNDS X170 AND X494

Z3



09/97

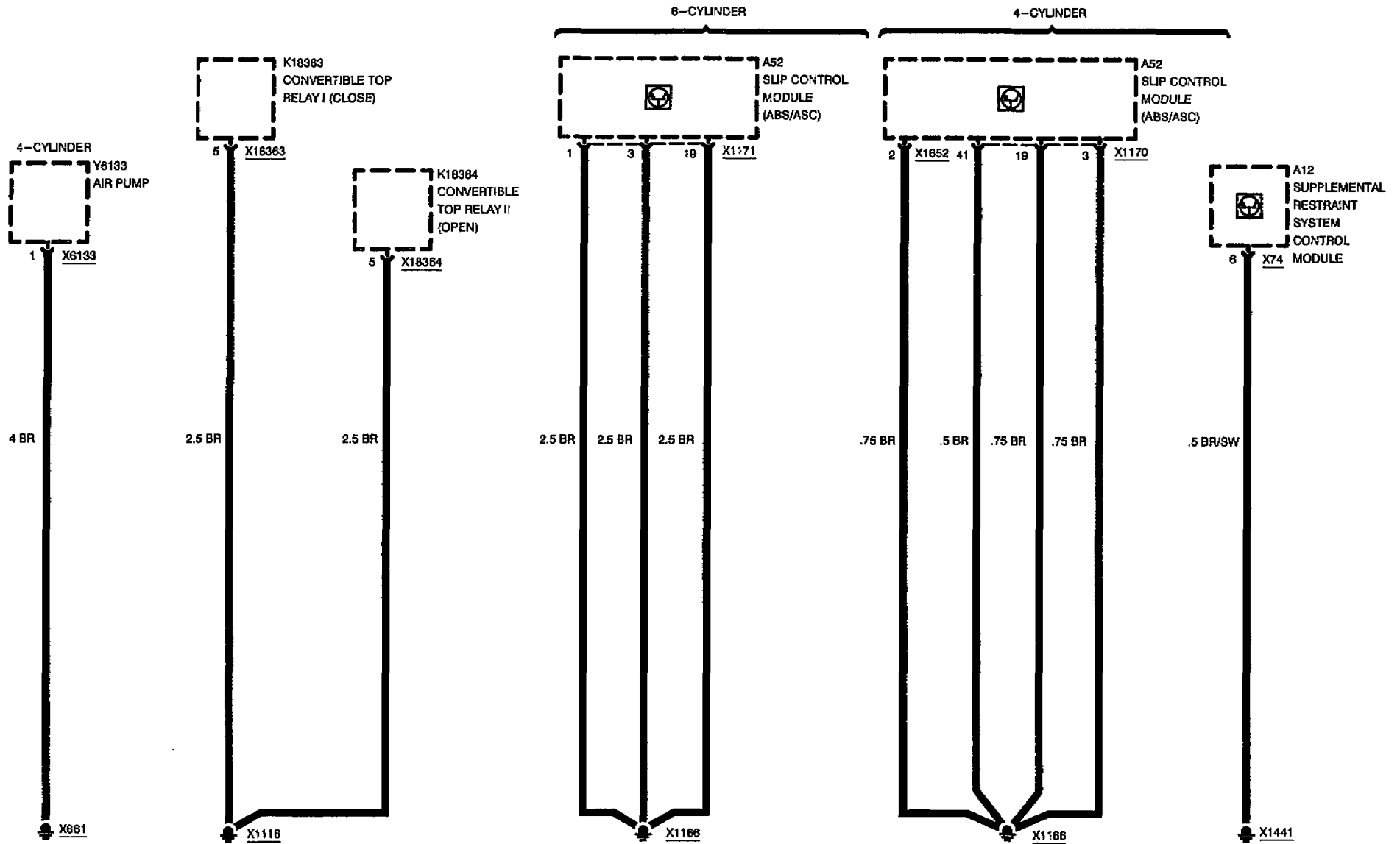
0670,4-02

1998



GROUND DISTRIBUTION

GROUNDS X861, X1116, X1166, AND X1441



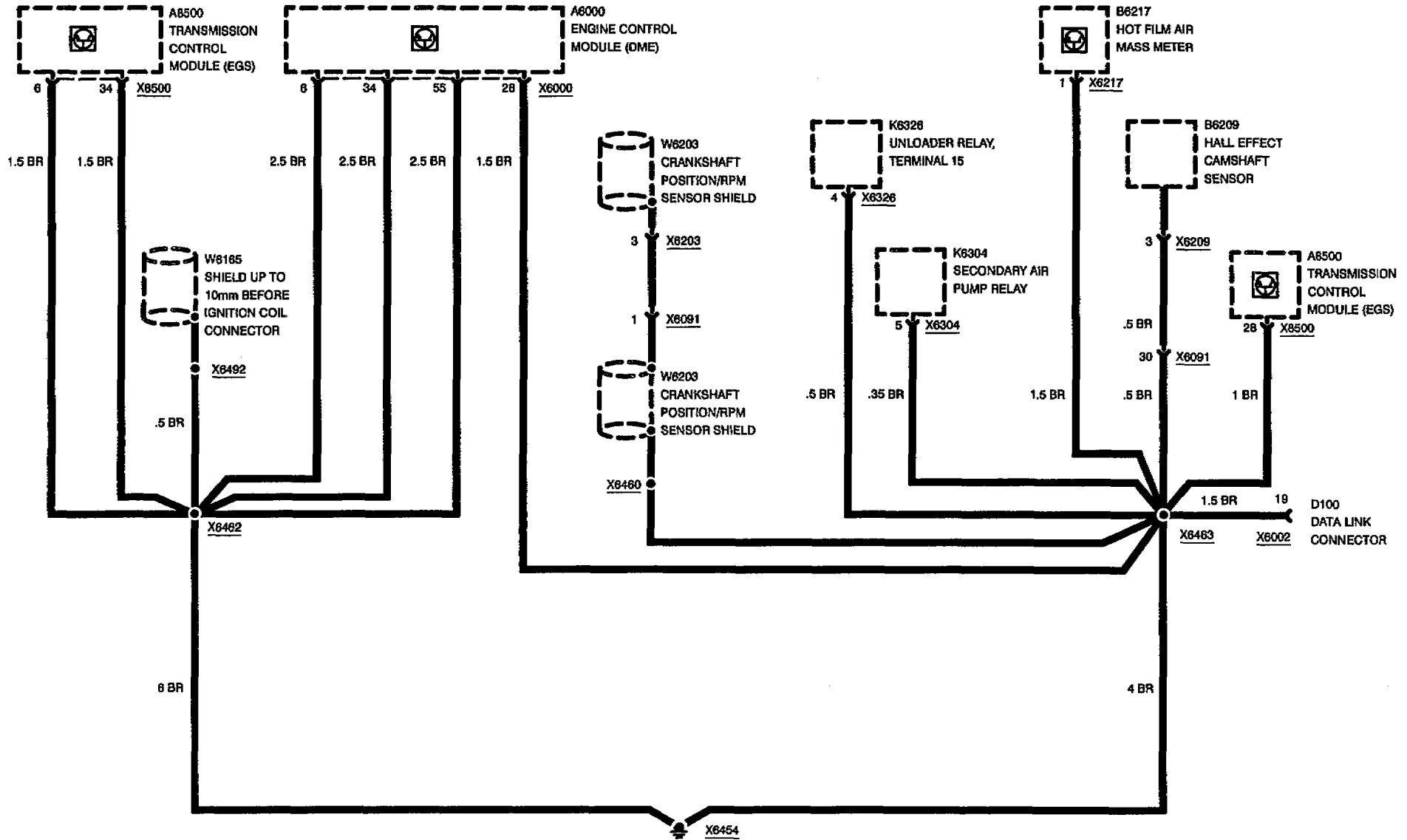


GROUND DISTRIBUTION

4-CYLINDER

GROUND X6454

Z3



09/97

0670.4-04

1998

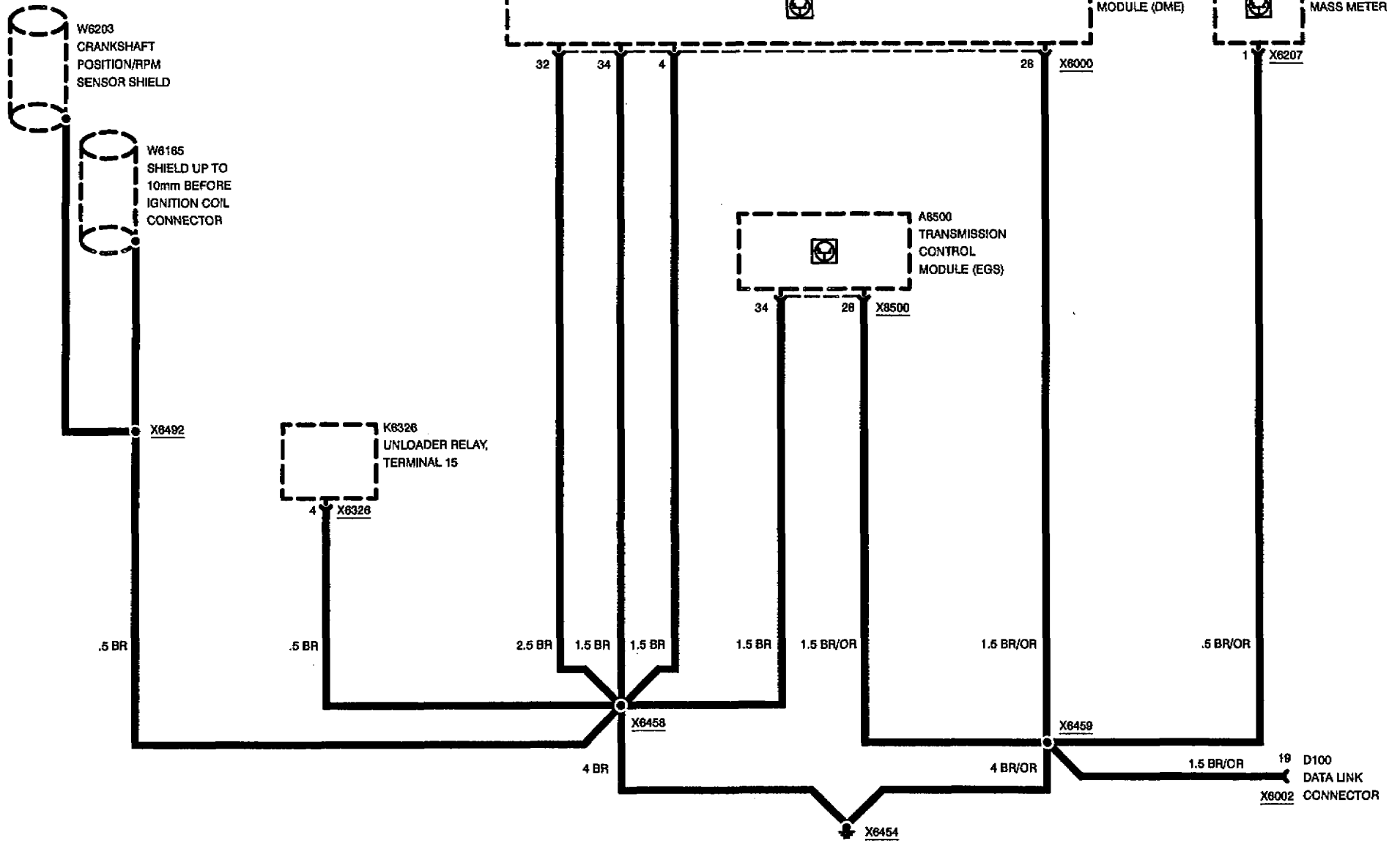


GROUND DISTRIBUTION

6-CYLINDER

GROUND X6454

Z3



09/97

0670.4-05

1998

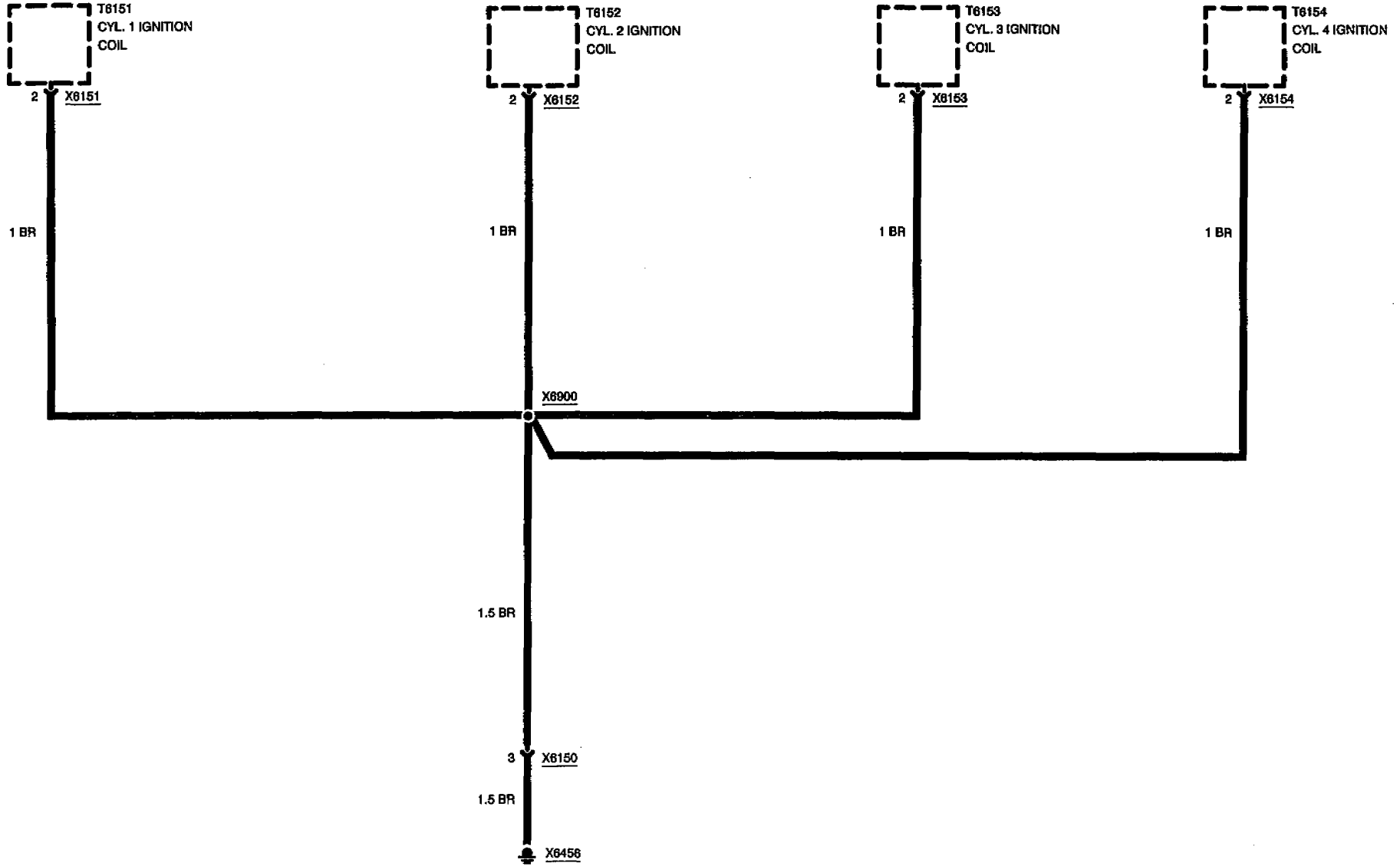


GROUND DISTRIBUTION

4-CYLINDER

GROUND X6456

Z3



09/97

0670.4-06

1998

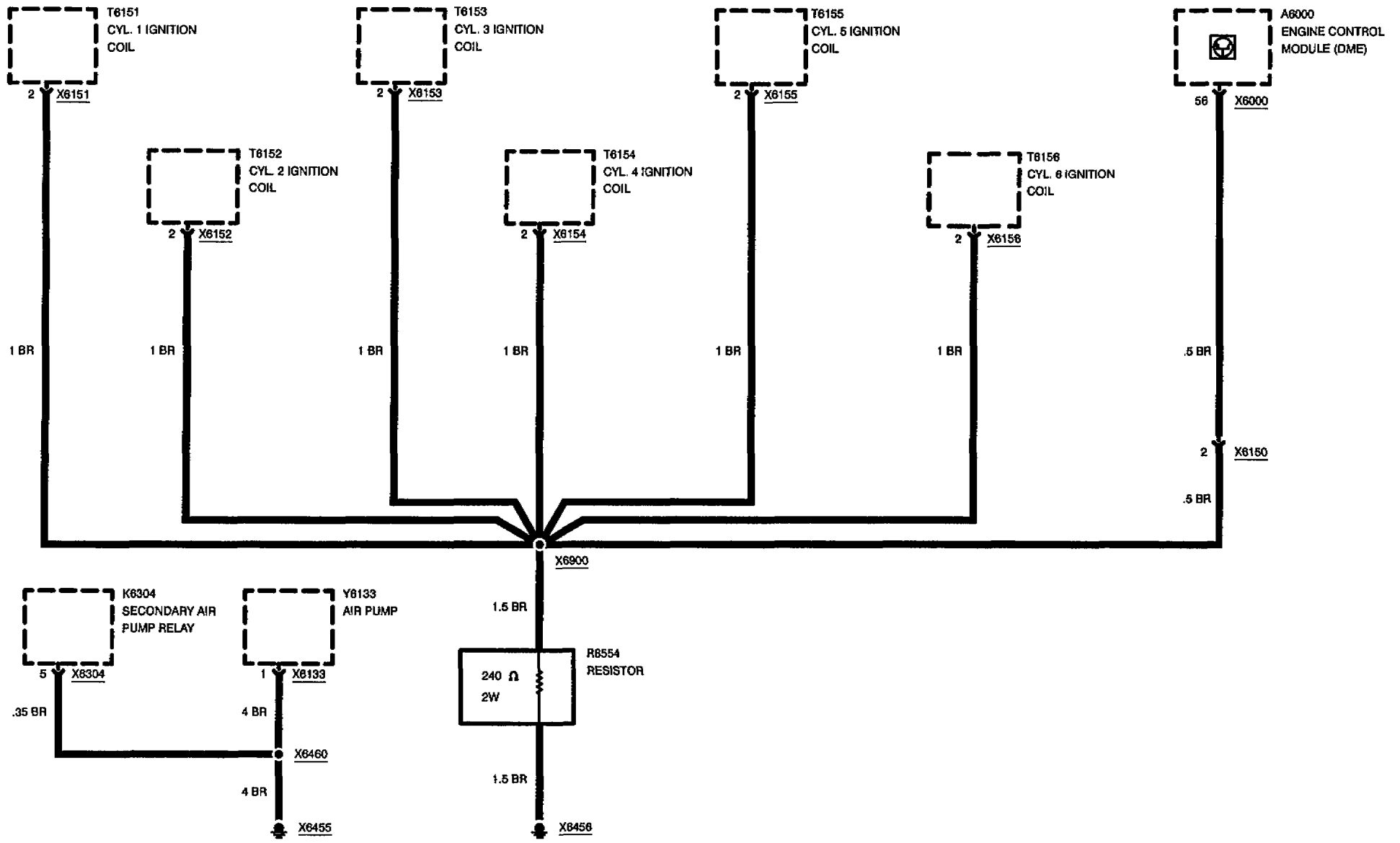


GROUND DISTRIBUTION

6-CYLINDER

GROUNDS X6455 AND X6456

Z3



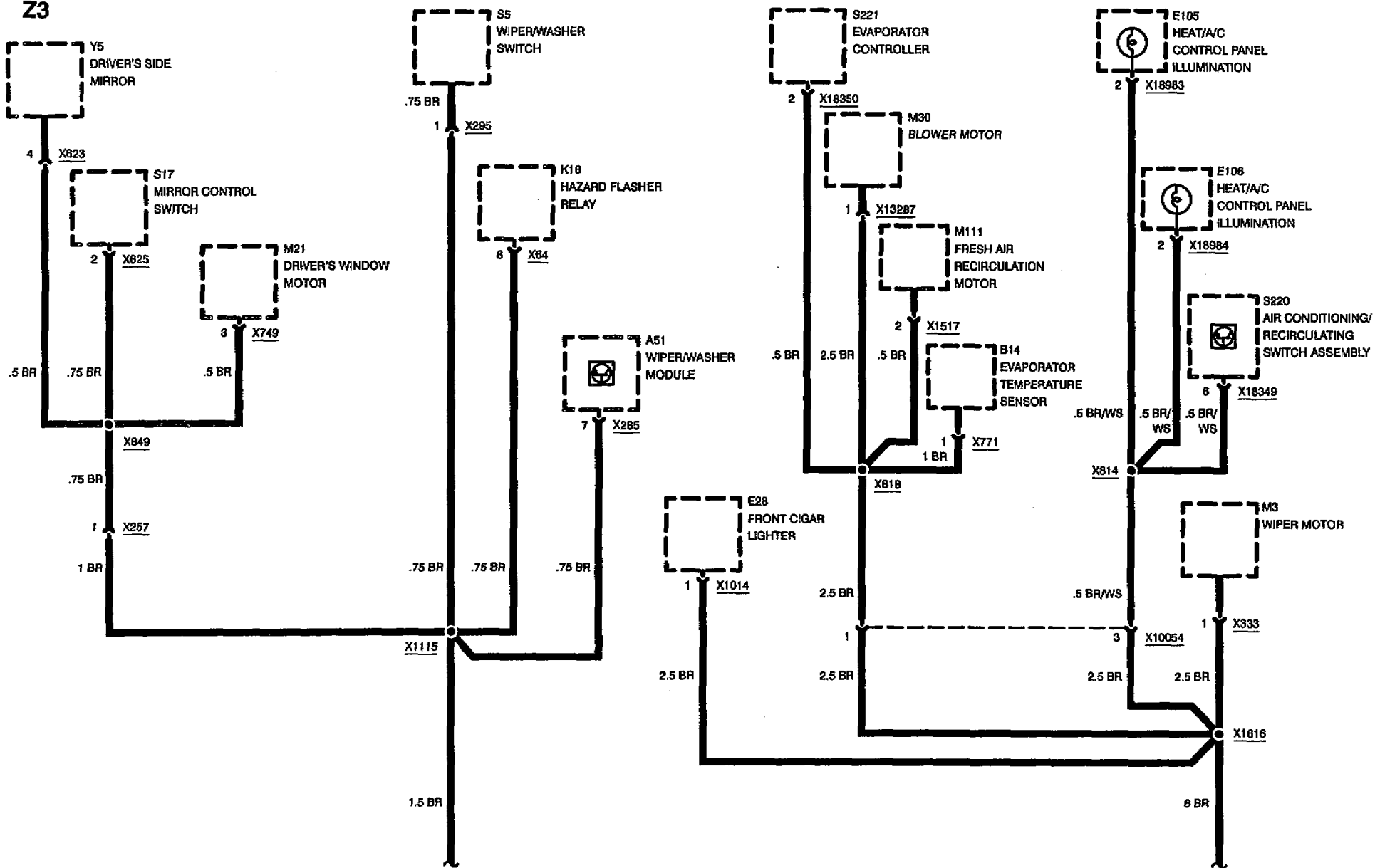
09/97 — 0670.4-07 — 1998



GROUND DISTRIBUTION

GROUND X9633

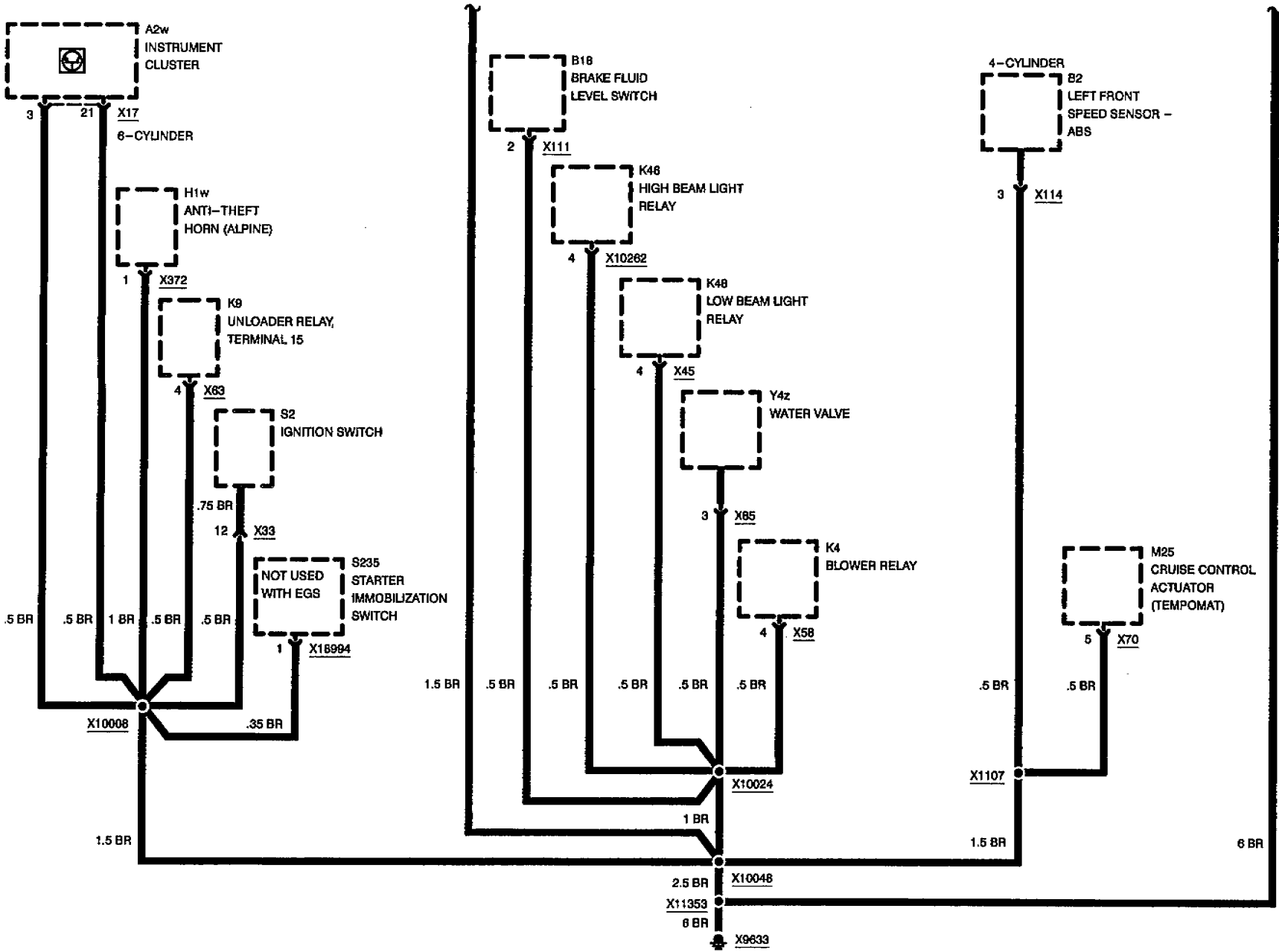
Z3



09/97

0670.4-08

1998

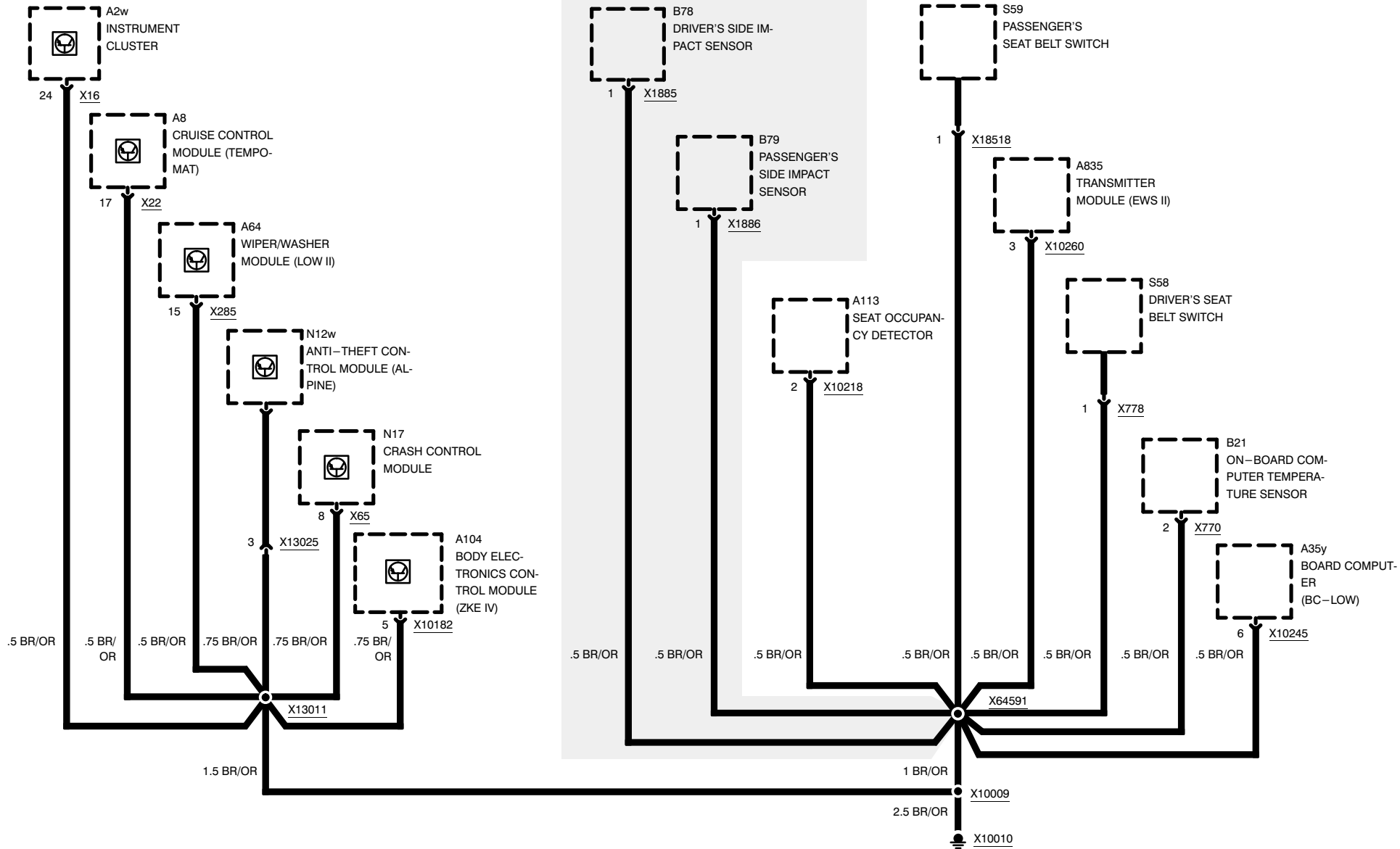




GROUND DISTRIBUTION

GROUND X10010

Z3



03/98

0670.4-10

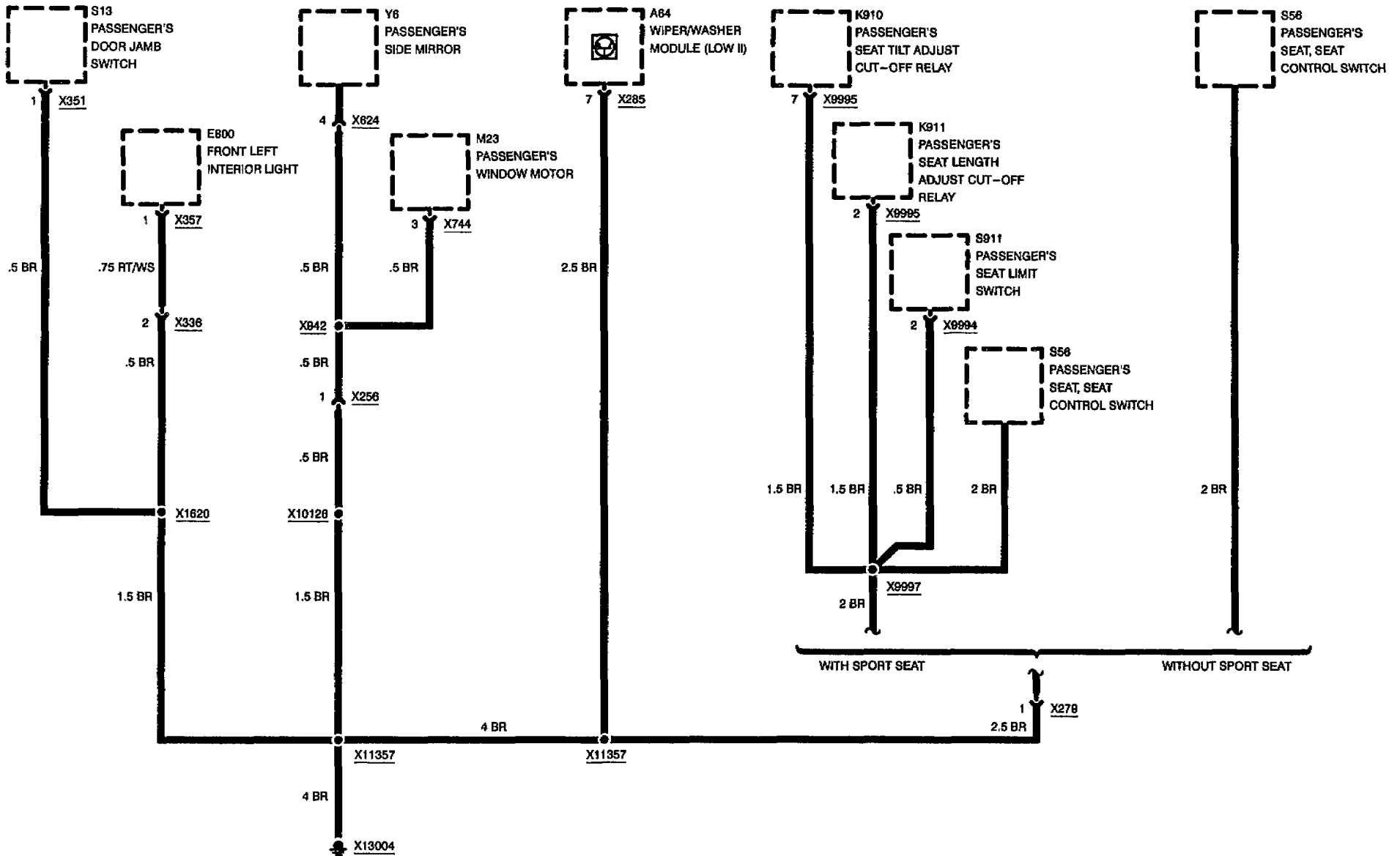
1998



GROUND DISTRIBUTION

GROUND X13004

Z3

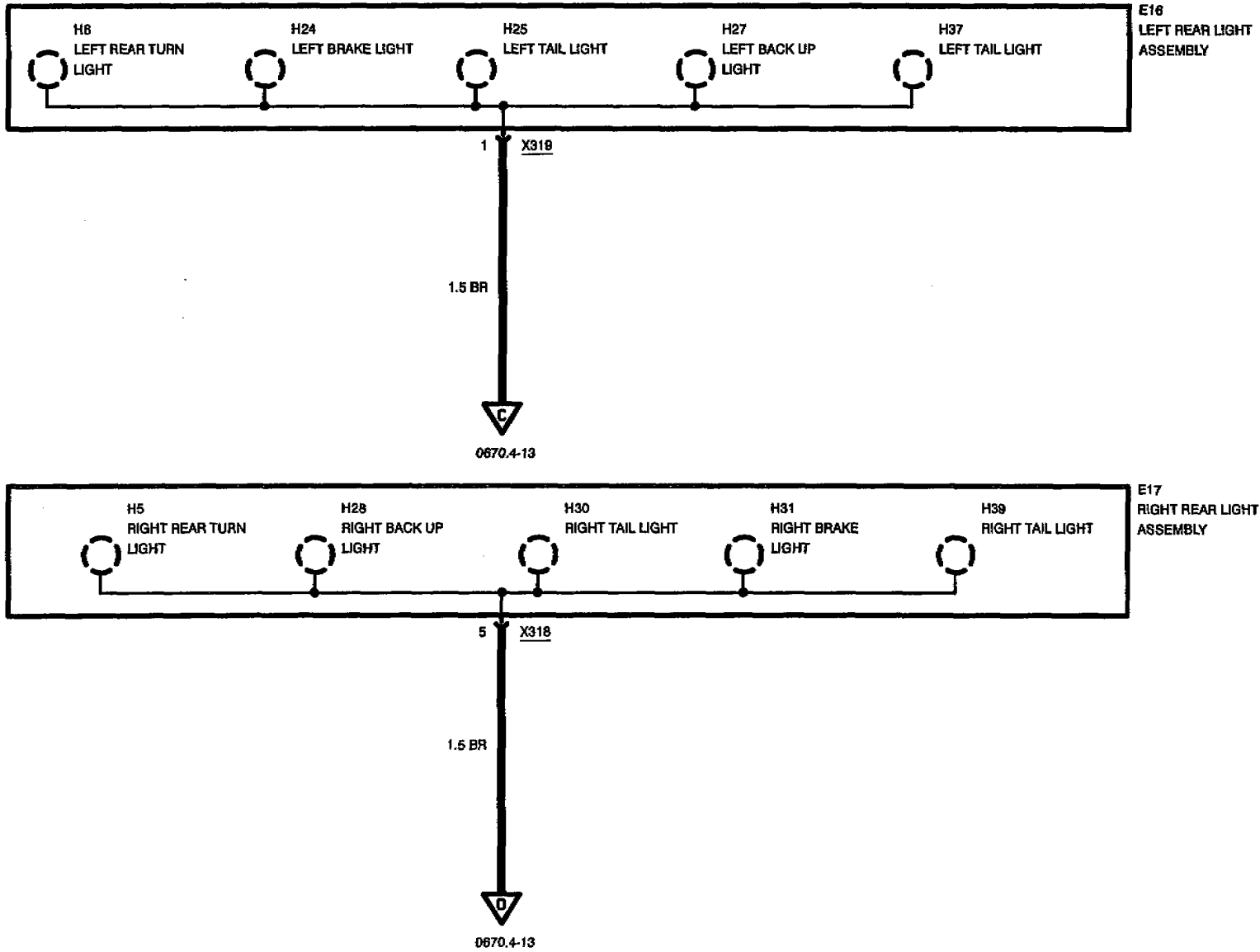




Z3

GROUND DISTRIBUTION

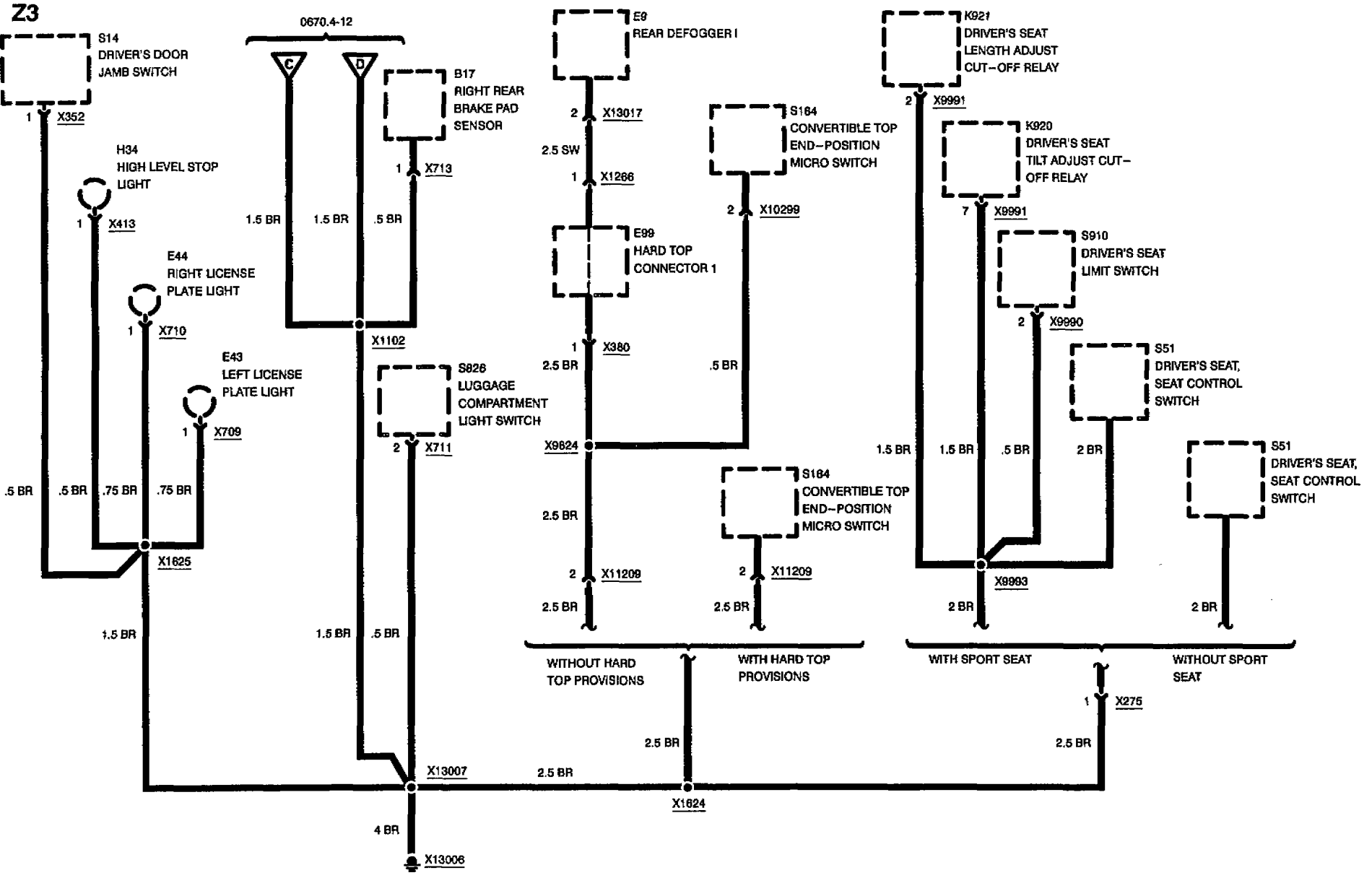
GROUND X13006





GROUND DISTRIBUTION

GROUND X13006

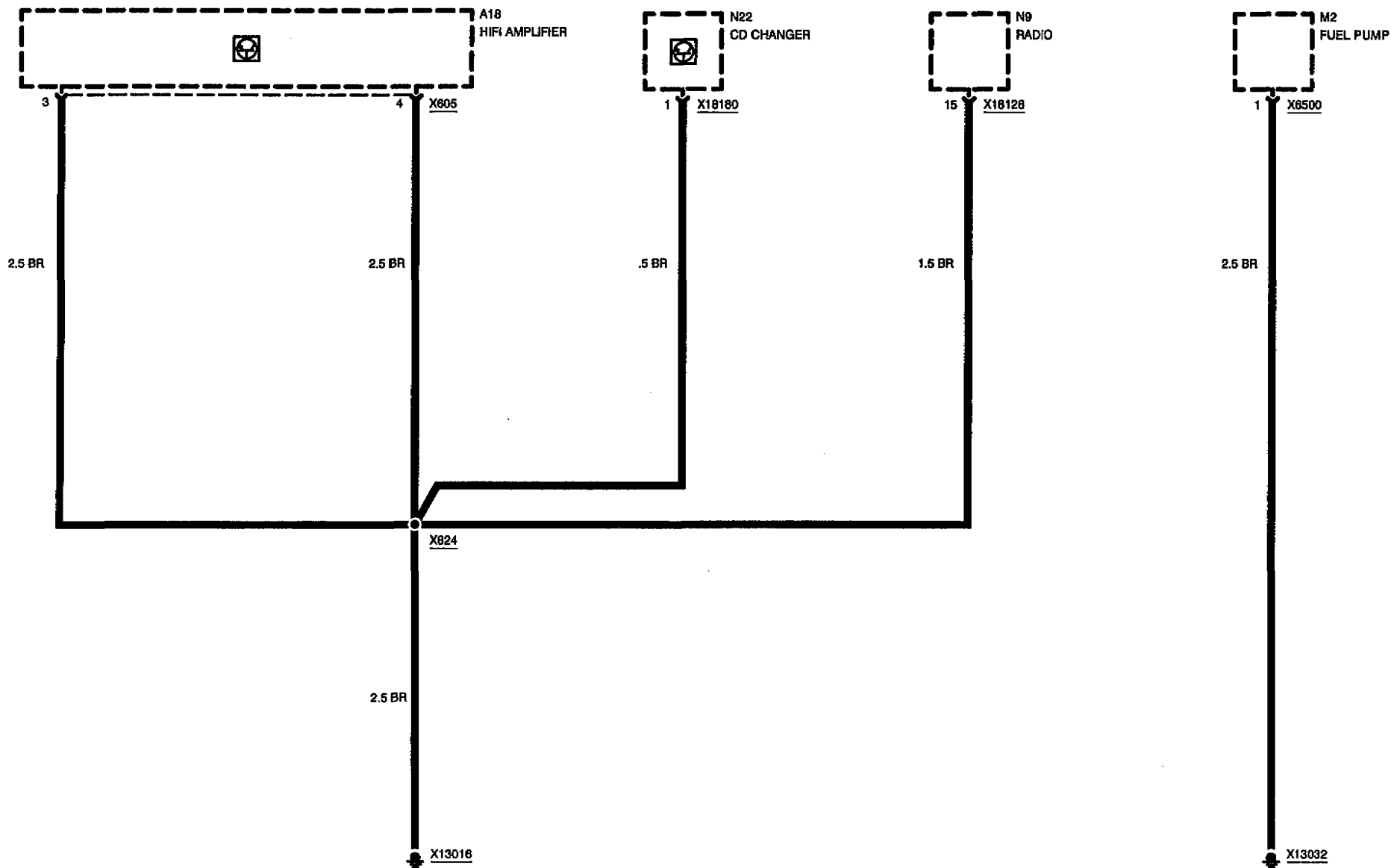




GROUND DISTRIBUTION

GROUNDS X13016 AND X13032

Z3



09/97

0670.4-14

1998

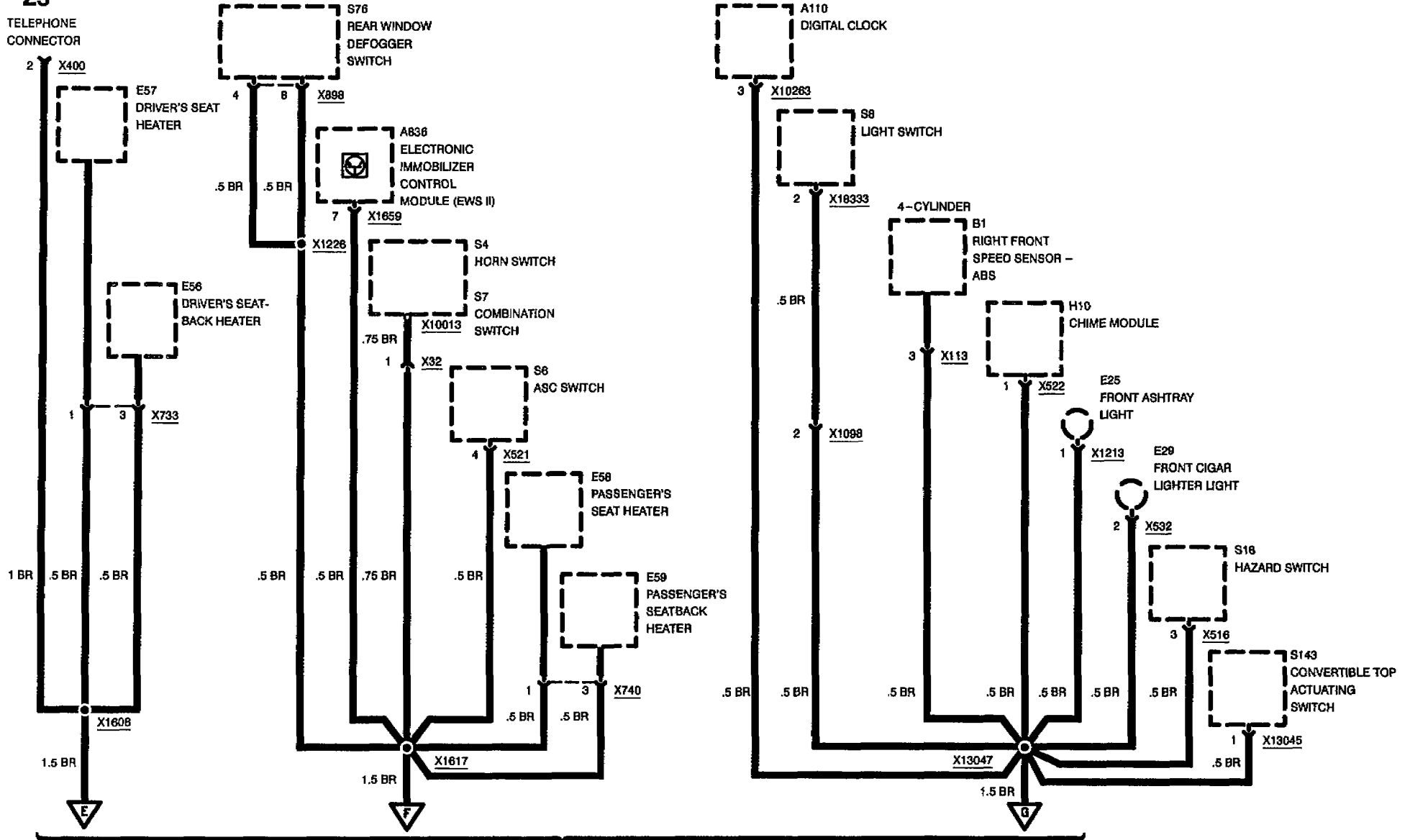


GROUND DISTRIBUTION

GROUND X18170

Z3

TELEPHONE CONNECTOR



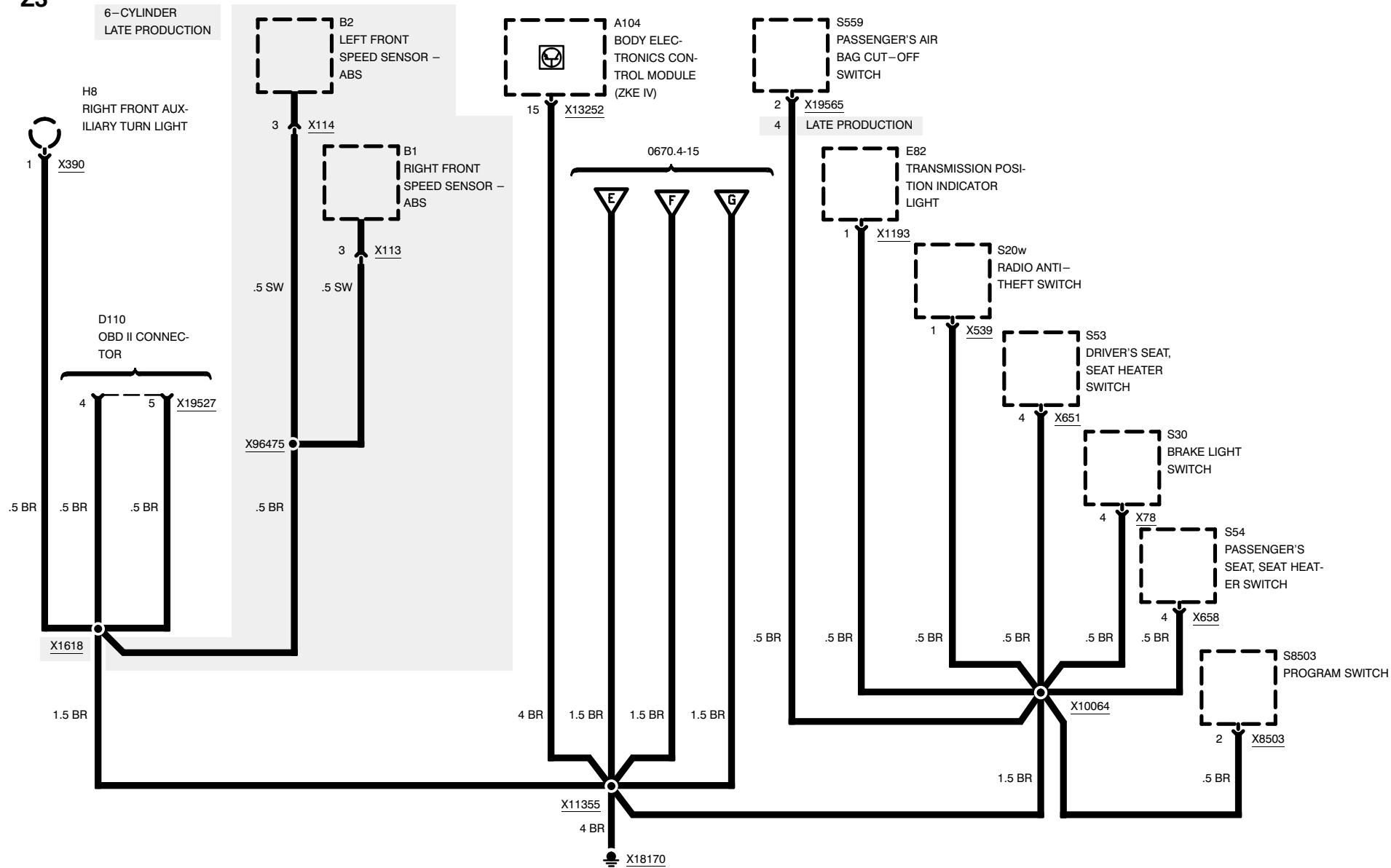
0670.4-16



Z3

GROUND DISTRIBUTION

GROUND X18170



03/98

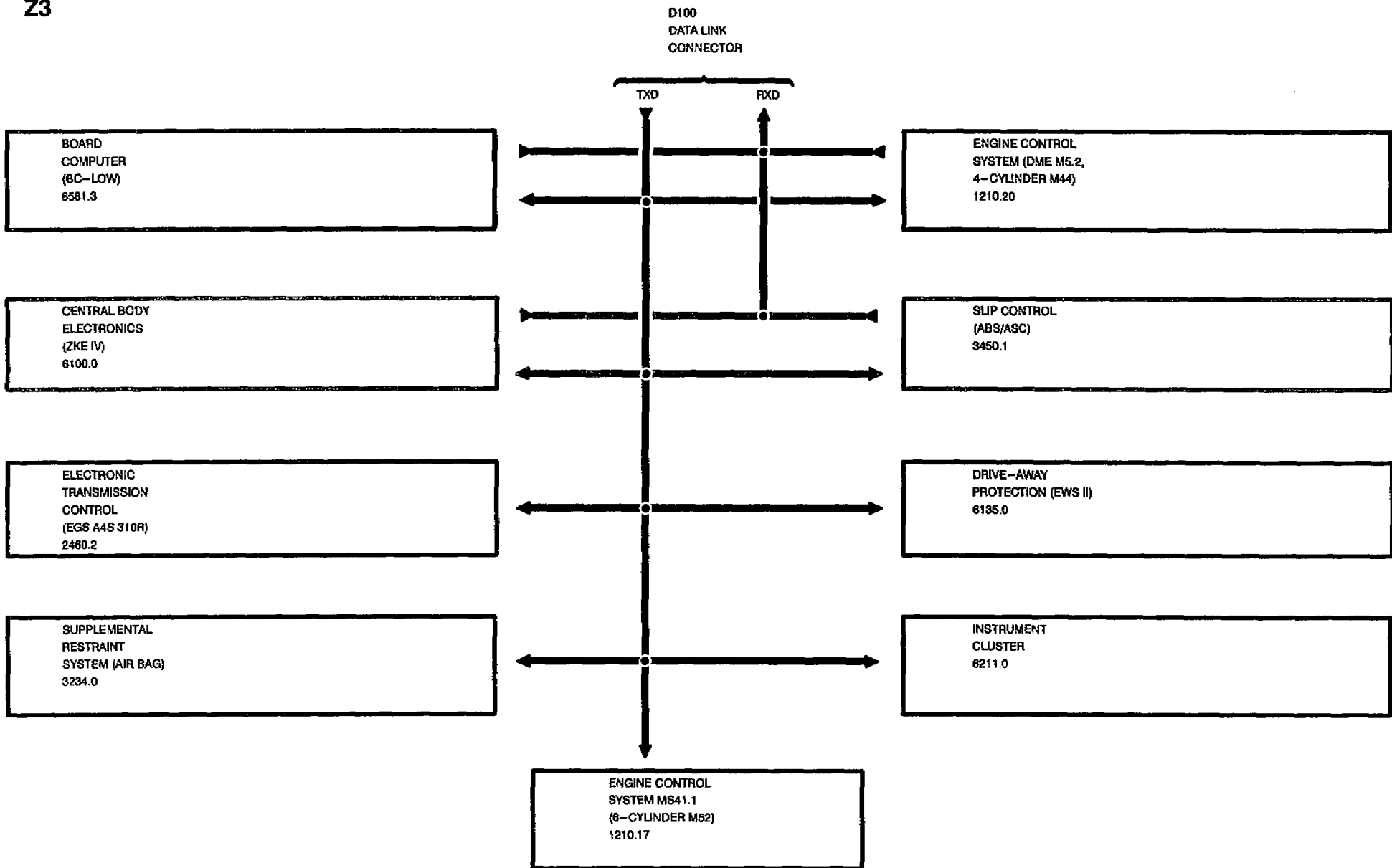
0670.4-16

1998



DATA LINK BLOCK DIAGRAM

Z3

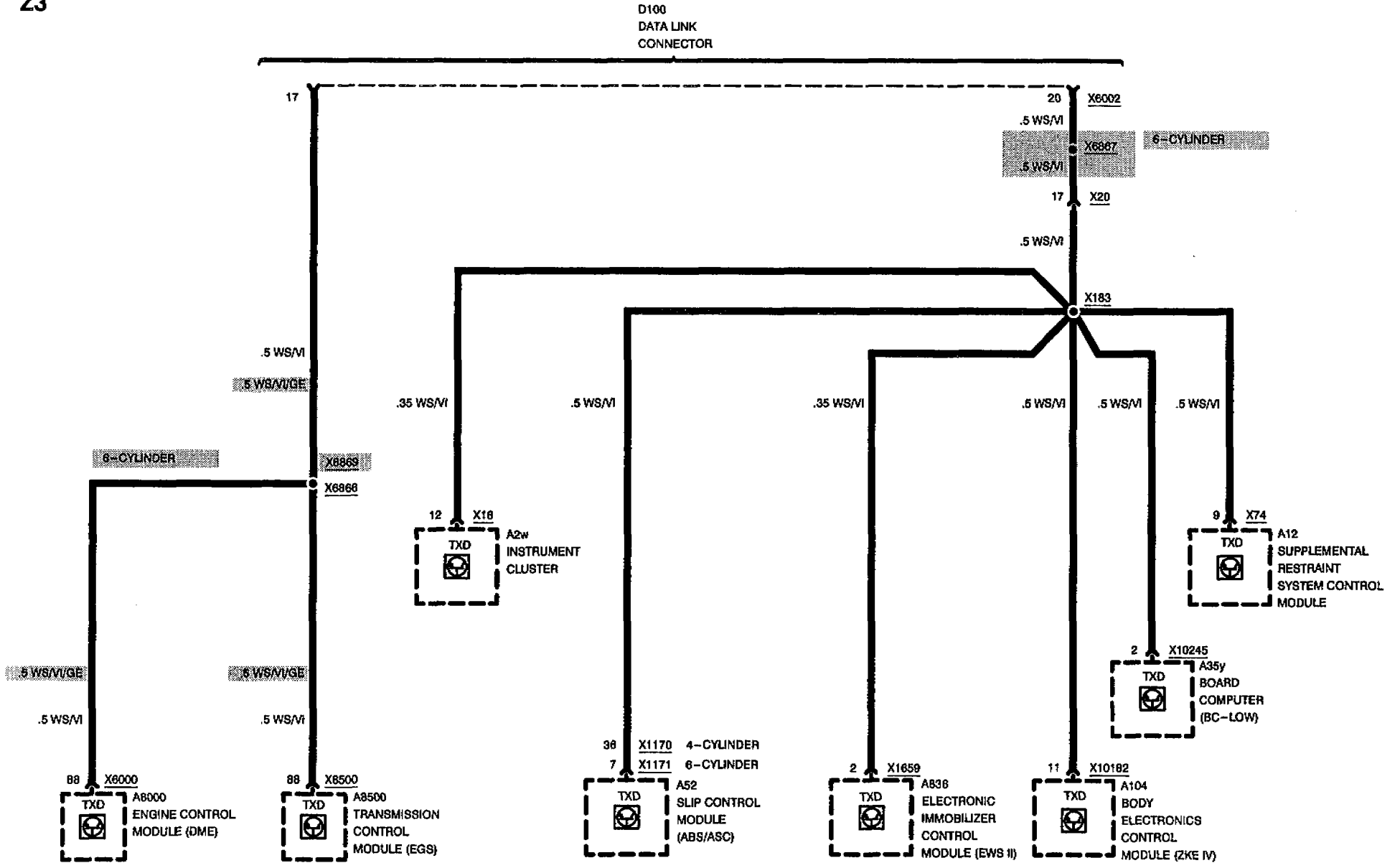




DATA LINK

TXD

Z3



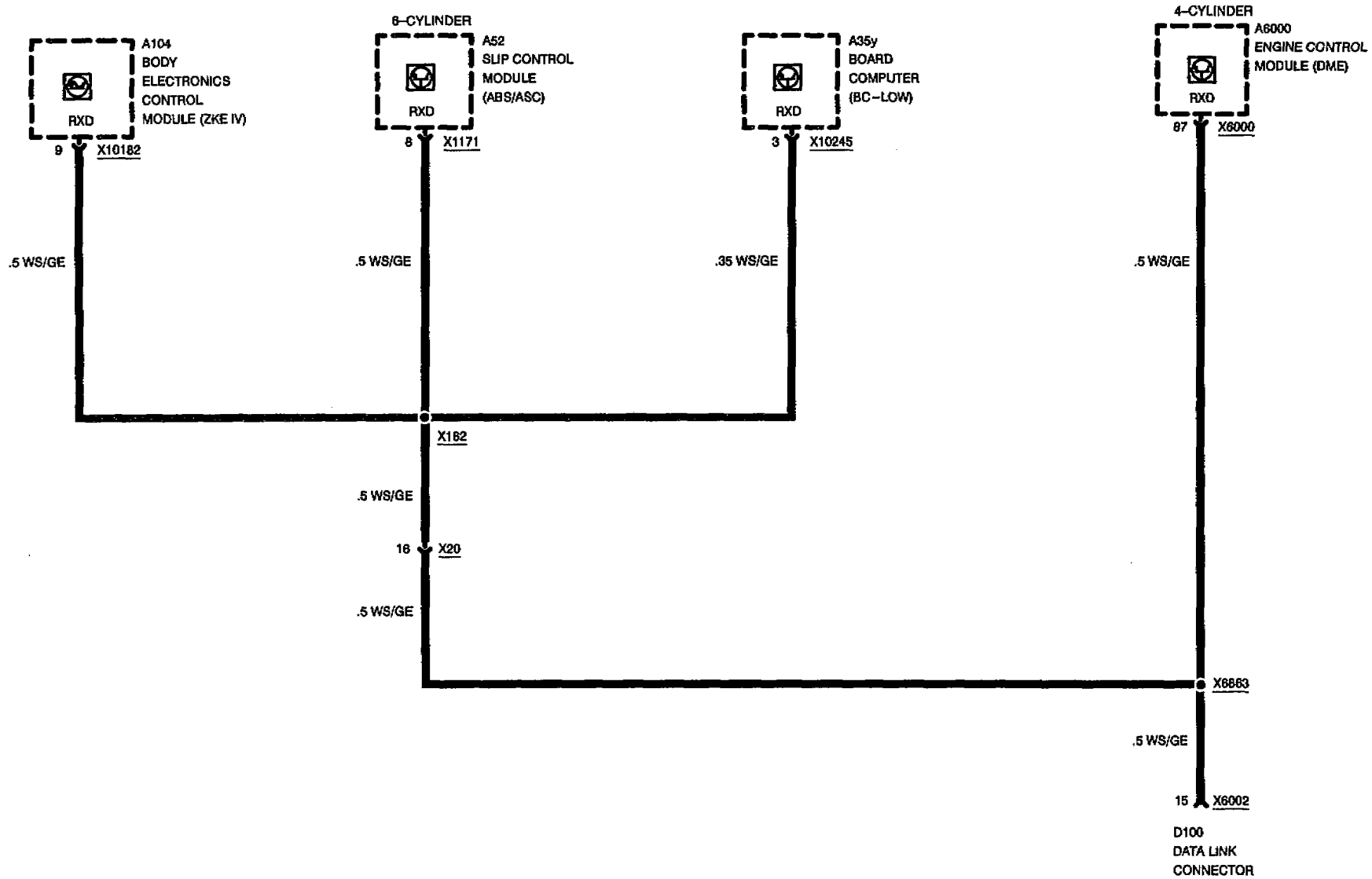


3

Z3

DATA LINK

RXD

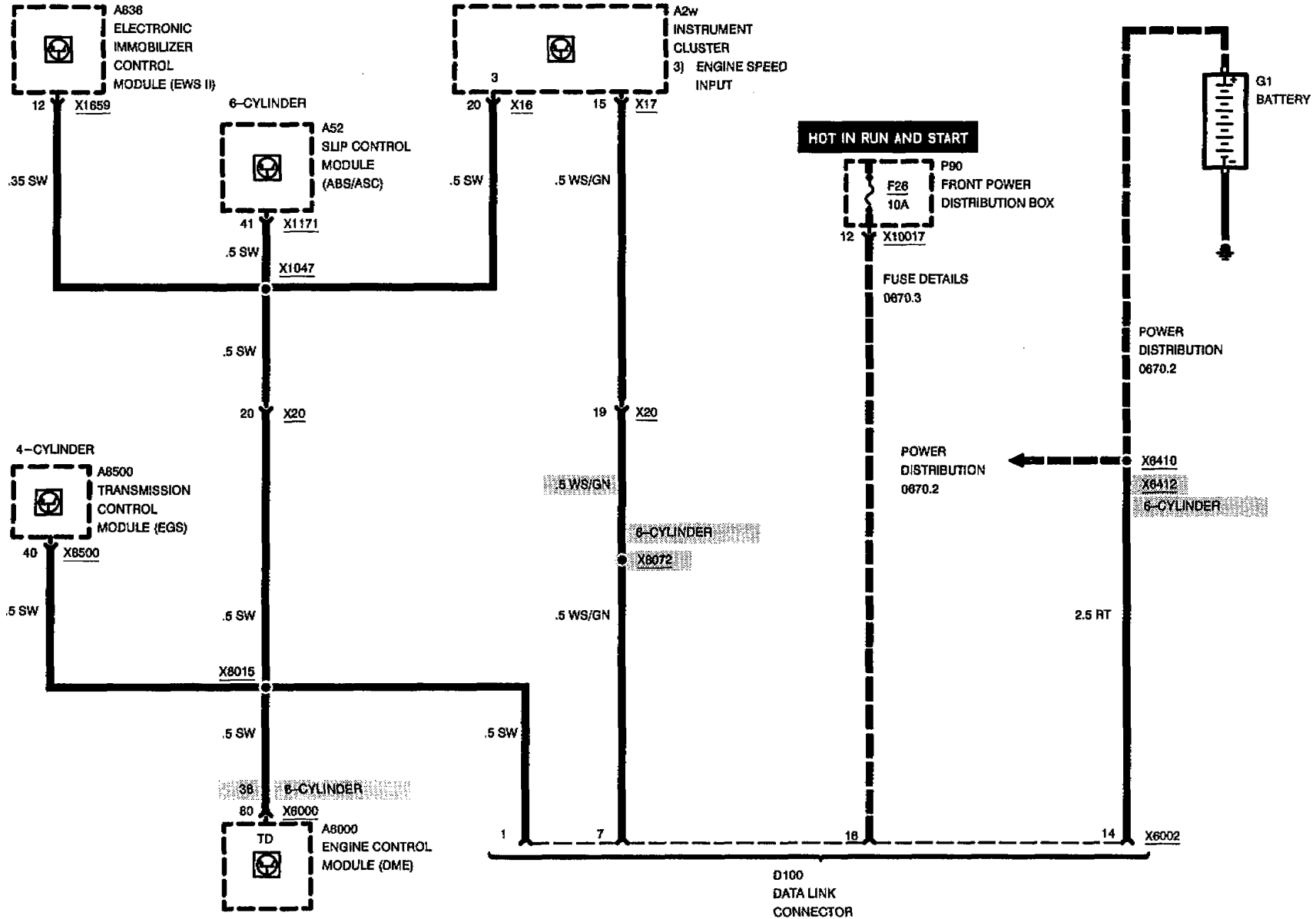




DATA LINK

DATA LINK CONNECTOR, PINS 1, 7, 14, AND 16

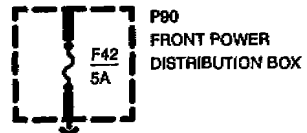
Z3



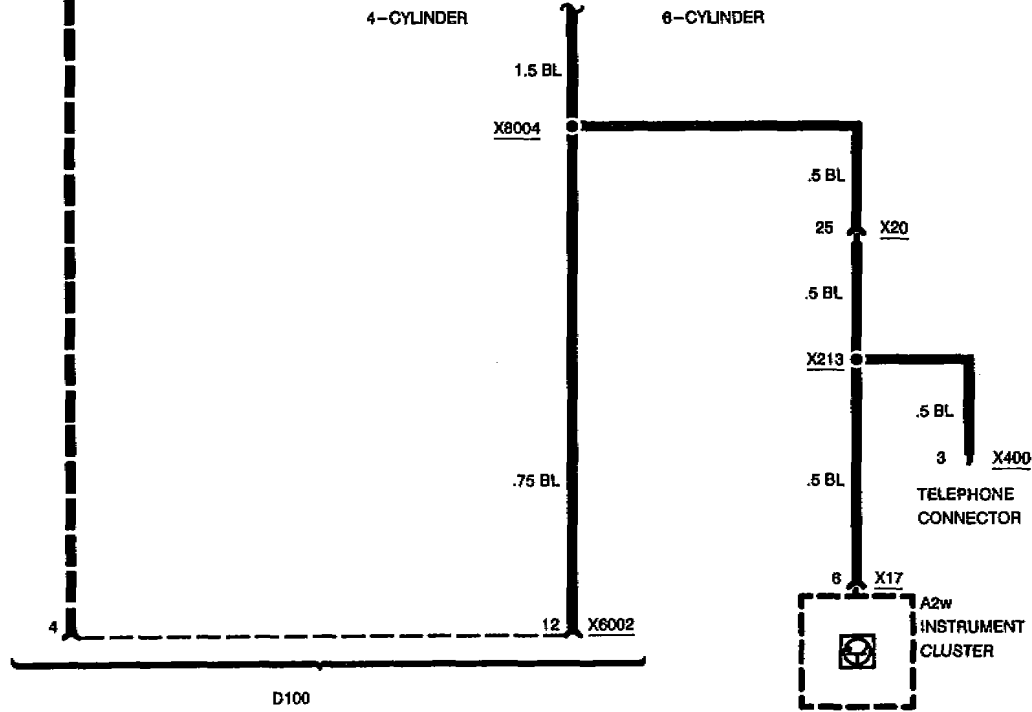
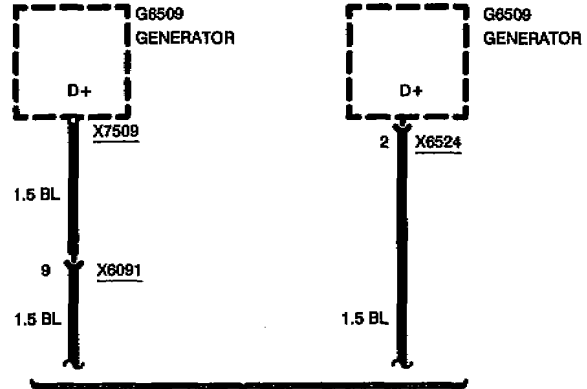
DATA LINK

DATA LINK CONNECTOR, PINS 4, 12, 18, AND 19

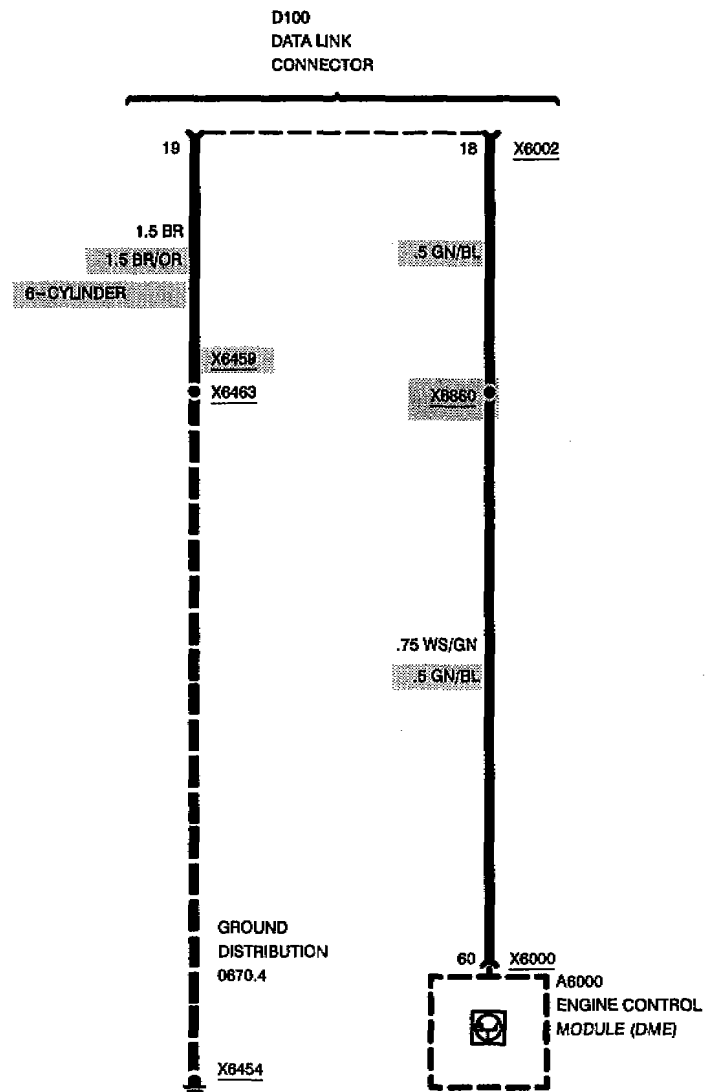
HOT IN ACCY, RUN AND START



FUSE DETAILS
0670.3



D100
DATA LINK
CONNECTOR

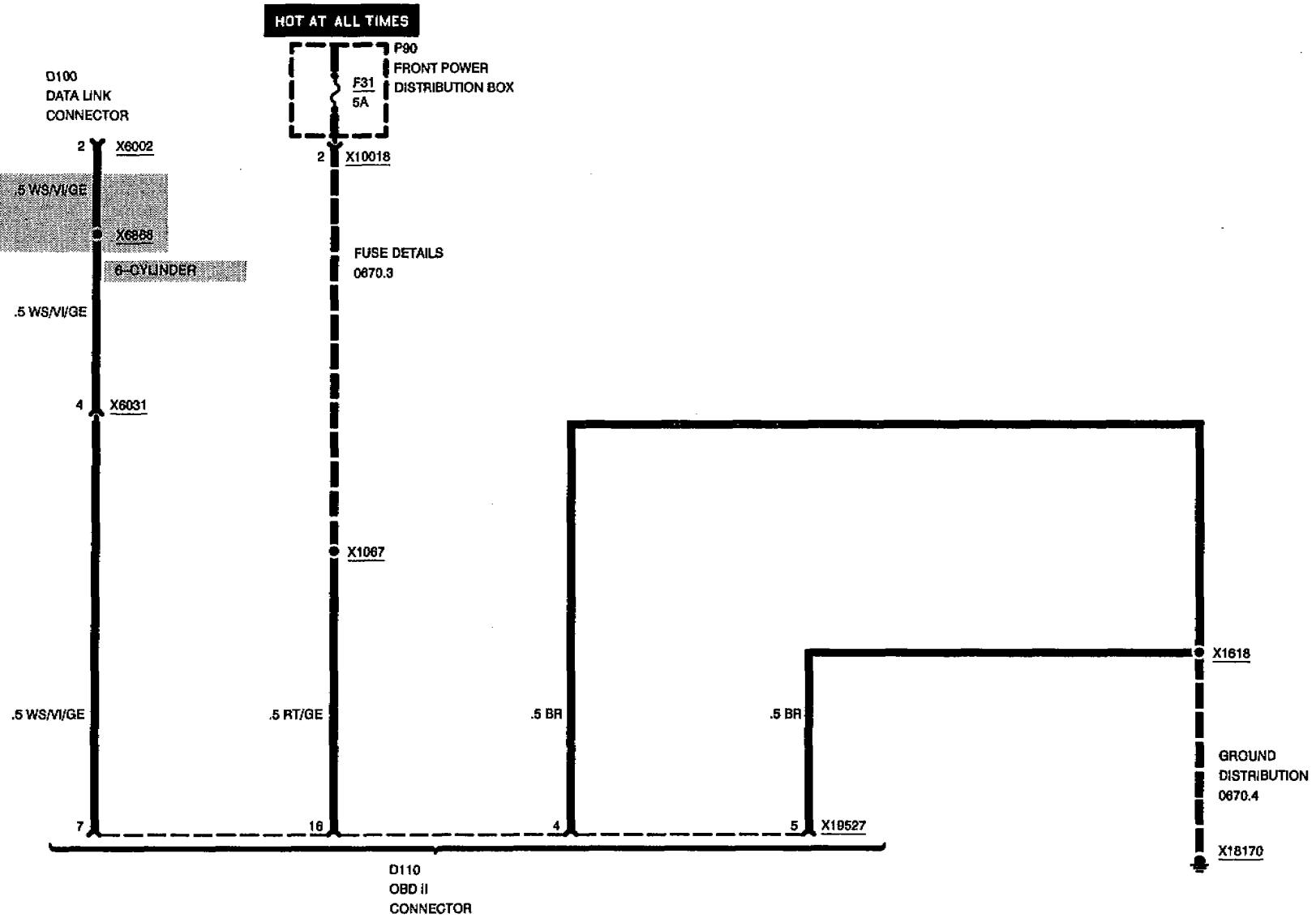




DATA LINK

DATA LINK CONNECTOR, PIN 2 AND OBD II CONNECTOR

Z3

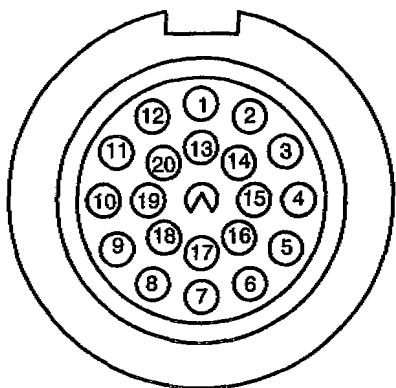




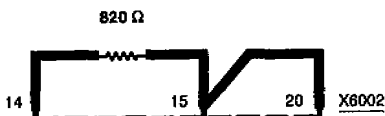
DATA LINK

DATA LINK CONNECTOR (X6002)

Z3

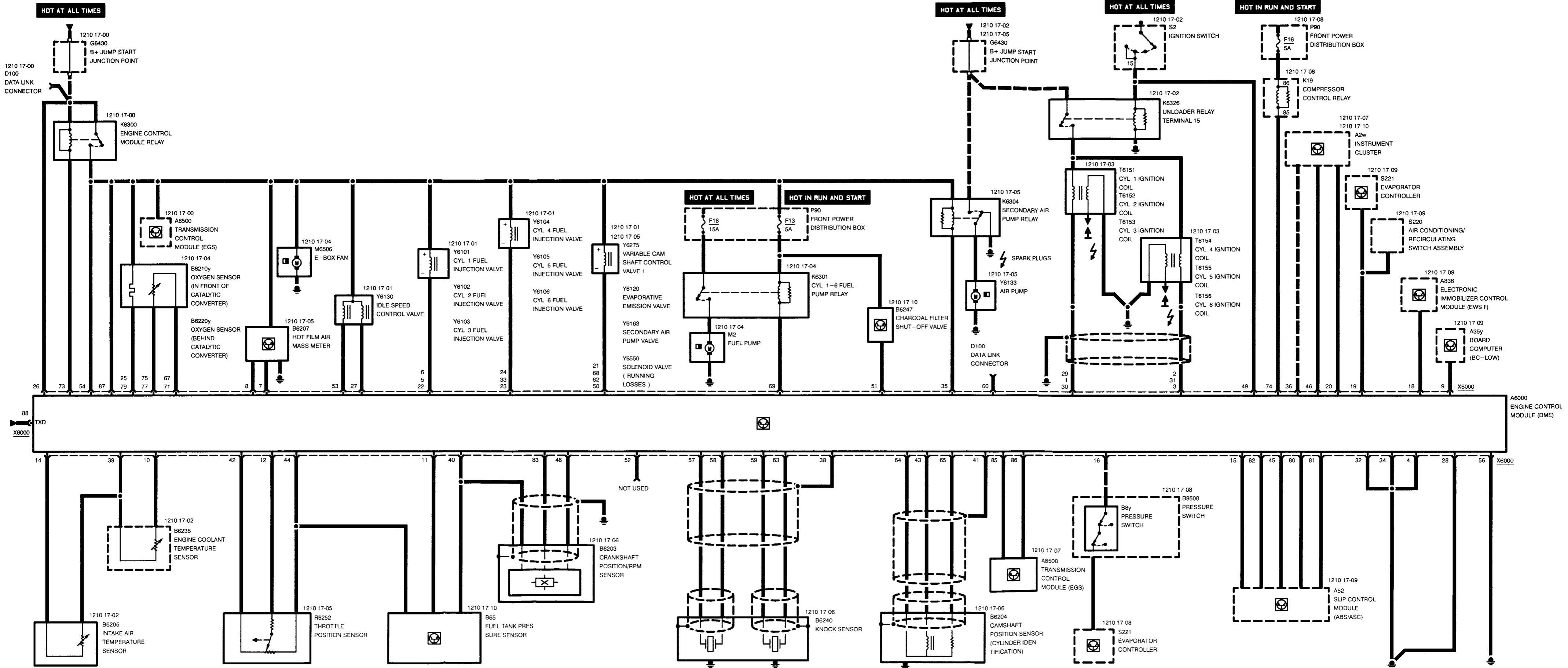


BRIDGES IN CAP OF D100 DATA LINK CONNECTOR



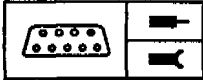
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	-	NOT OCCUPIED	
4	R	VOLTAGE: HOT IN ACCY, RUN AND START	SW/VI/GE (*VI/GN)
5	-	NOT OCCUPIED	
6	-	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	-	NOT OCCUPIED	
9	-	NOT OCCUPIED	
10	-	NOT OCCUPIED	
11	-	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	-	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD	DIAGNOSTIC DATA LINK	WS/VI (*WS/VI/GE)
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	WS/GN (*GN/BL)
19	31	GROUND	BR (*BR/OR)
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

* 6-CYLINDER





Z3

**Pin Assignments****X6000**

Pin	Type	Description/Function	Connection
1	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
2	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
3	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
4	M	Ground	Ground point
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
7	M	Ground	Hot wire air mass meter
8	E	Hot wire air mass meter	Hot wire air mass meter
9	E	Ti-measurement signal (fuel consumption)	Board computer
10	E	Engine coolant temperature	Engine coolant temperature sensor
11	E	Fuel tank pressure	Fuel tank pressure sensor
12	E	Throttle position signal	Throttle position sensor
13		Not used	
14	E	Intake air temperature	Intake air temperature sensor
15	E	Speed signal right rear	ABS/ASC control module
16	E	Activate A/C	Pressure switch
17		Not used	
18	E	Drive away protection signal (code)	Electronic immobilizer control module (EWS II)
19	E	A/C on signal	Air conditioning operating unit
20	A	"Check engine" indicator control	Instrument cluster
21	A	Camshaft control	Variable camshaft control valve
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
24	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
25	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
26	E	Battery voltage	B+ jump start junction point
27	A	Activate valve	Idle speed control valve
28	M	Ground	Ground point
29	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil

E = Input, A = Output, M = Ground



Z3

**Pin Assignments**

Pin	Type	Description/Function	Connection
30	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
31	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
32	M	Ground	Ground point
33	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
34	M	Ground	Ground point
35	A	Activate relay	Secondary air pump relay
36	A	Crankshaft RPM speed signal TD	Instrument cluster
37		Not used	
38	M	Ground	Shield knock sensor
39	M	Ground	Temperature sensors
40	M	Ground	Crankshaft position/RPM sensor Fuel tank pressure sensor
41	M	Ground	Shield camshaft position sensor
42	M	Ground	Throttle position sensor
43	M	Ground	Camshaft position sensor
44	A	Voltage supply	Throttle position sensor Fuel tank pressure sensor
45	A	Throttle position signal	ABS/ASC control module
46	E	Ti-measurement signal (fuel consumption)	Instrument cluster
47		Not used	
48	A	Voltage supply	Crankshaft position/RPM sensor
49	E	Terminal 15	Ignition switch
50	A	Running losses	Solenoid valve
51	A	Activate valve	Charcoal filter shut off valve
52	A	Signal exhaust flap	Not used
53	A	Activate valve	Idle speed control valve
54	E	Battery voltage, terminal 87	Engine control module relay
55		Not used	
56	M	Ground	Ground point
57	E	Cyl. 1-3 knock sensor	Knock sensor
58	E	Cyl. 1-3 knock sensor	Knock sensor
59	E	Cyl. 4-6 knock sensor	Knock sensor
60	E	Programming voltage	Data link connector

E = Input, A = Output, M = Ground



Z3

**Pin Assignments**

Pin	Type	Description/Function	Connection
61		Not used	
62	E	Activate valve	Secondary air pump valve
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	E	Camshaft position	Camshaft position sensor
65	E	Camshaft position	Camshaft position sensor
66		Not used	
67	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
68	E	Activate valve	Evaporative emission valve
69	E	Activate relay	Fuel pump relay
70		Not used	
71	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
72		Not used	
73	E	Activate relay	Engine control module relay
74	A	Activate A/C compressor	Compressor control relay
75	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
76		Not used	
77	E	Sensor signal	Oxygen sensor (behind catalytic converter)
78		Not used	
79	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
80	A	ASC signal ZA	Slip control module ABS/ASC
81	A	ASC signal ZWV	Slip control module ABS/ASC
82	A	ASC signal MSR	Slip control module ABS/ASC
83	E	Sensor signal	Crankshaft position/RPM sensor
84		Not used	
85	E/A	CAN-LOW	Transmission control module EGS
86	E/A	CAN-HIGH	Transmission control module EGS
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

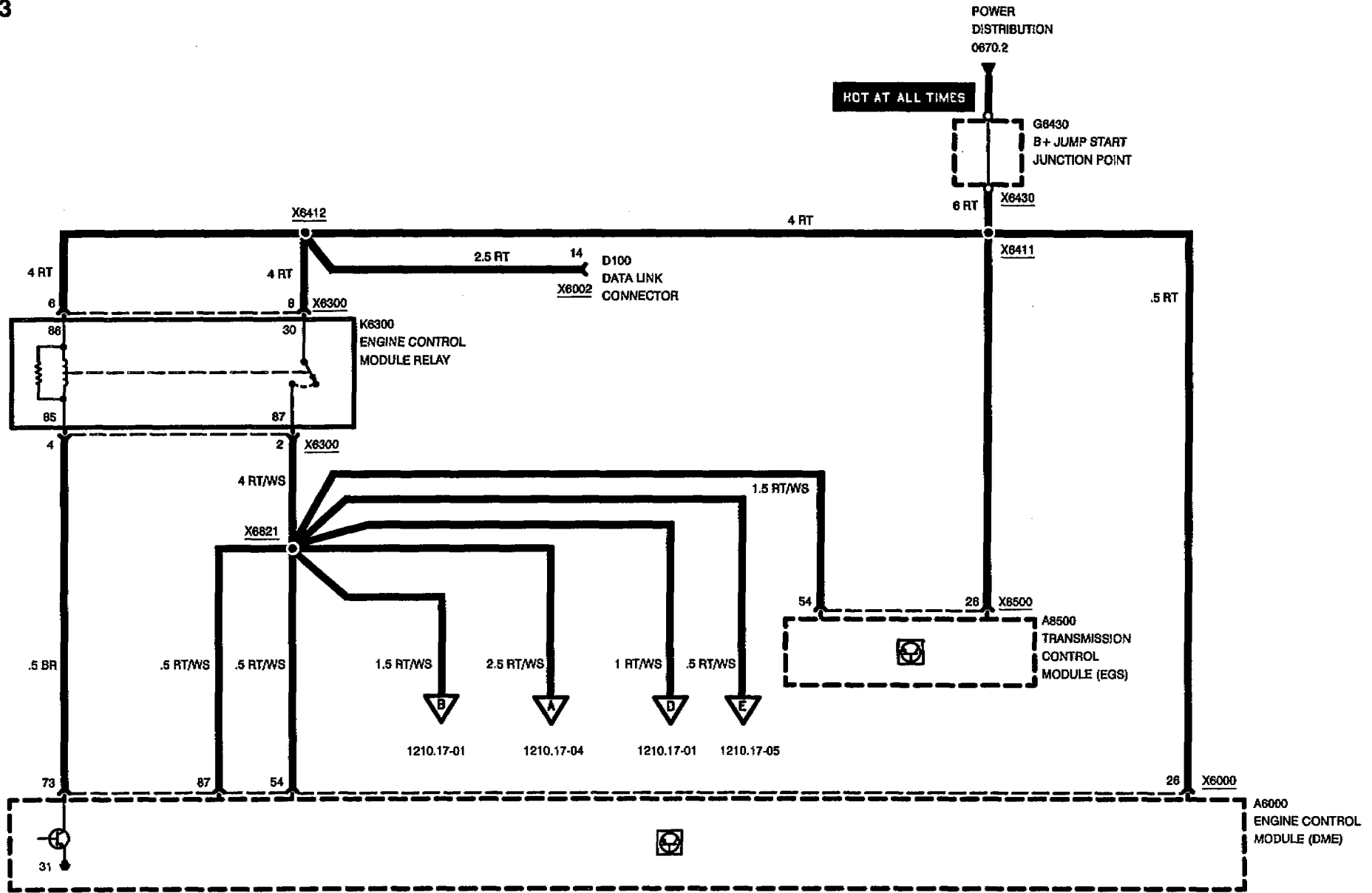
E = Input, A = Output, M = Ground



Z3

ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

POWER



09/97

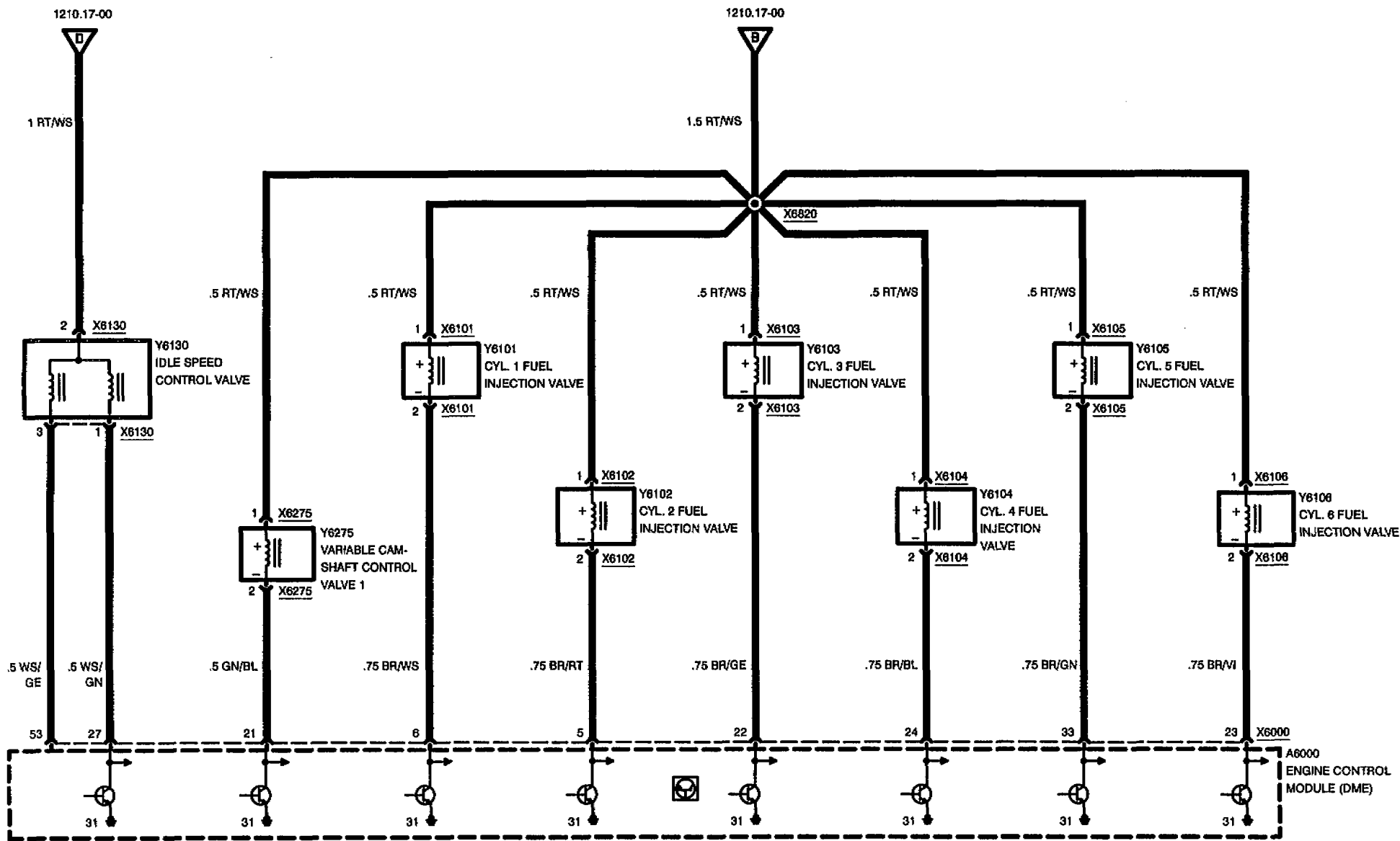
1210.17-00

1998



ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

Z3

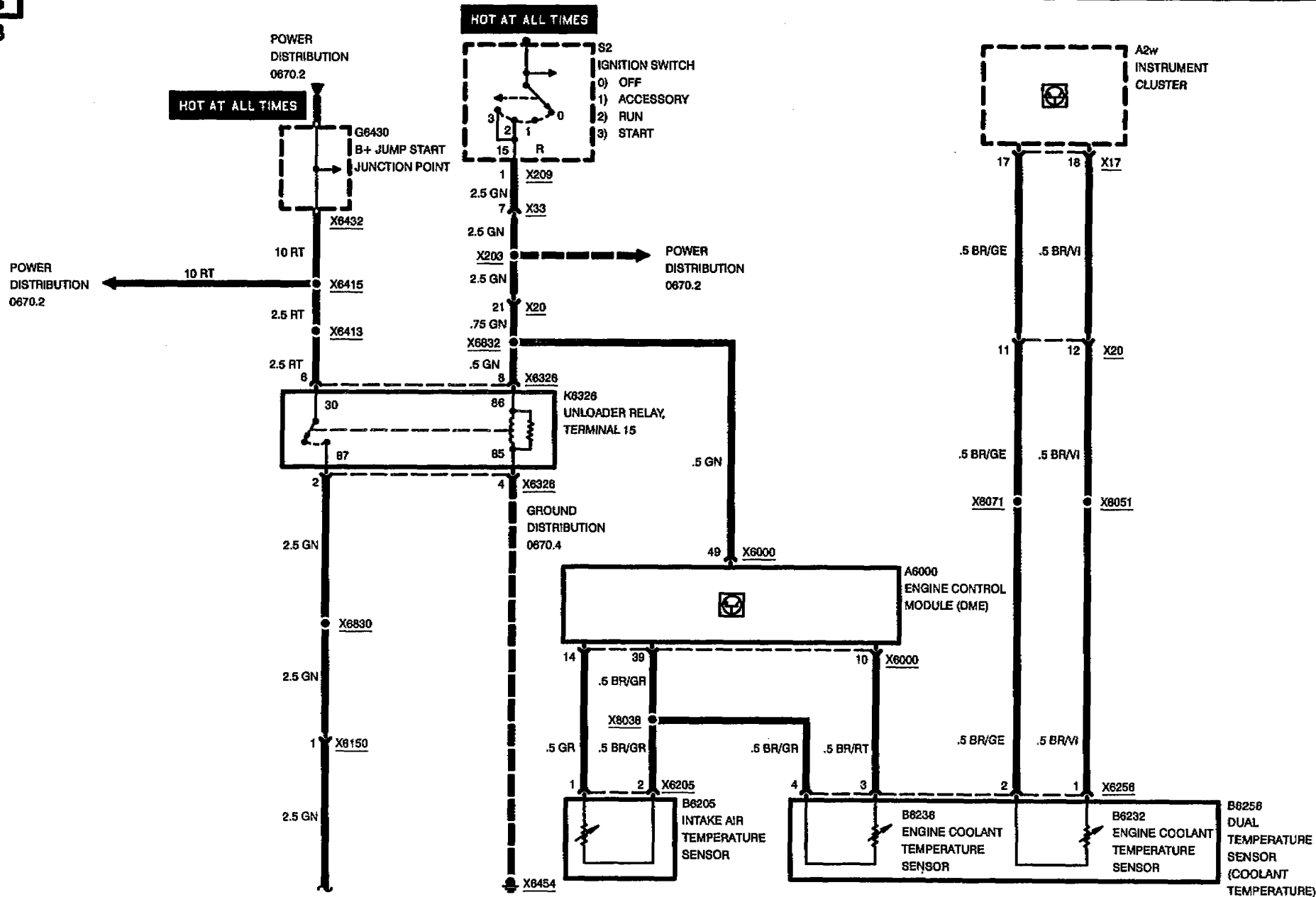


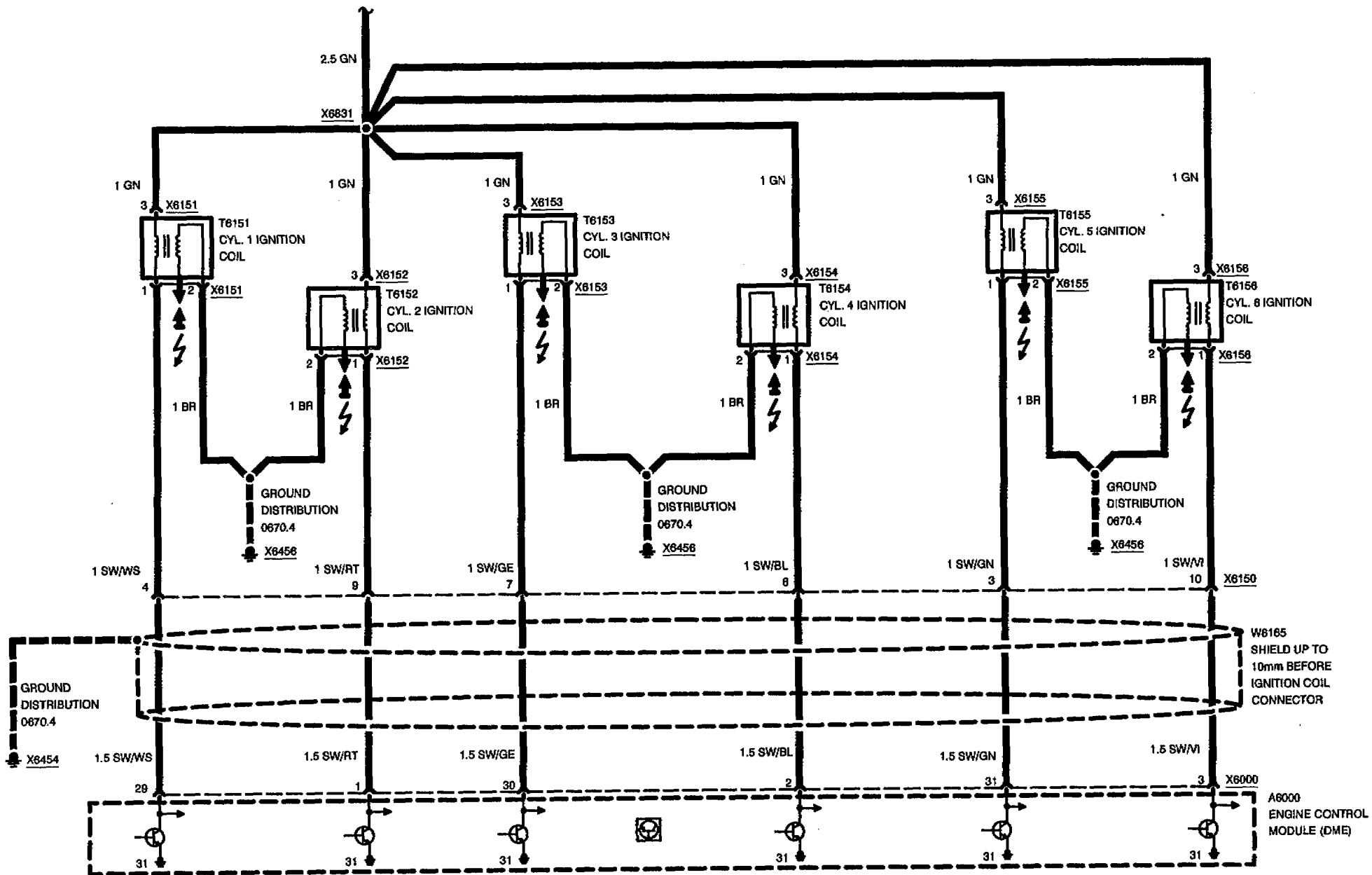
09/97

1210.17-01

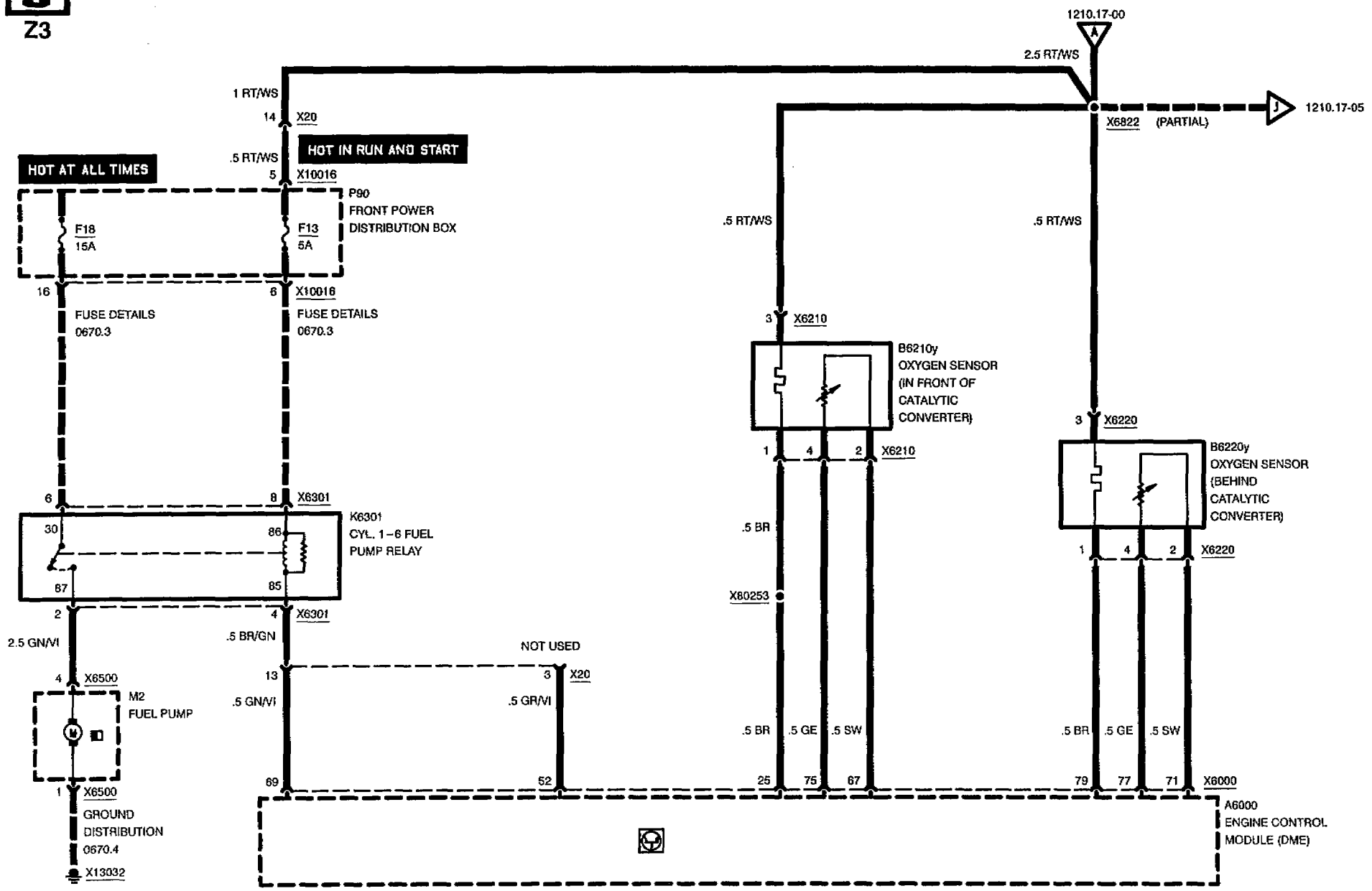
1998

ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

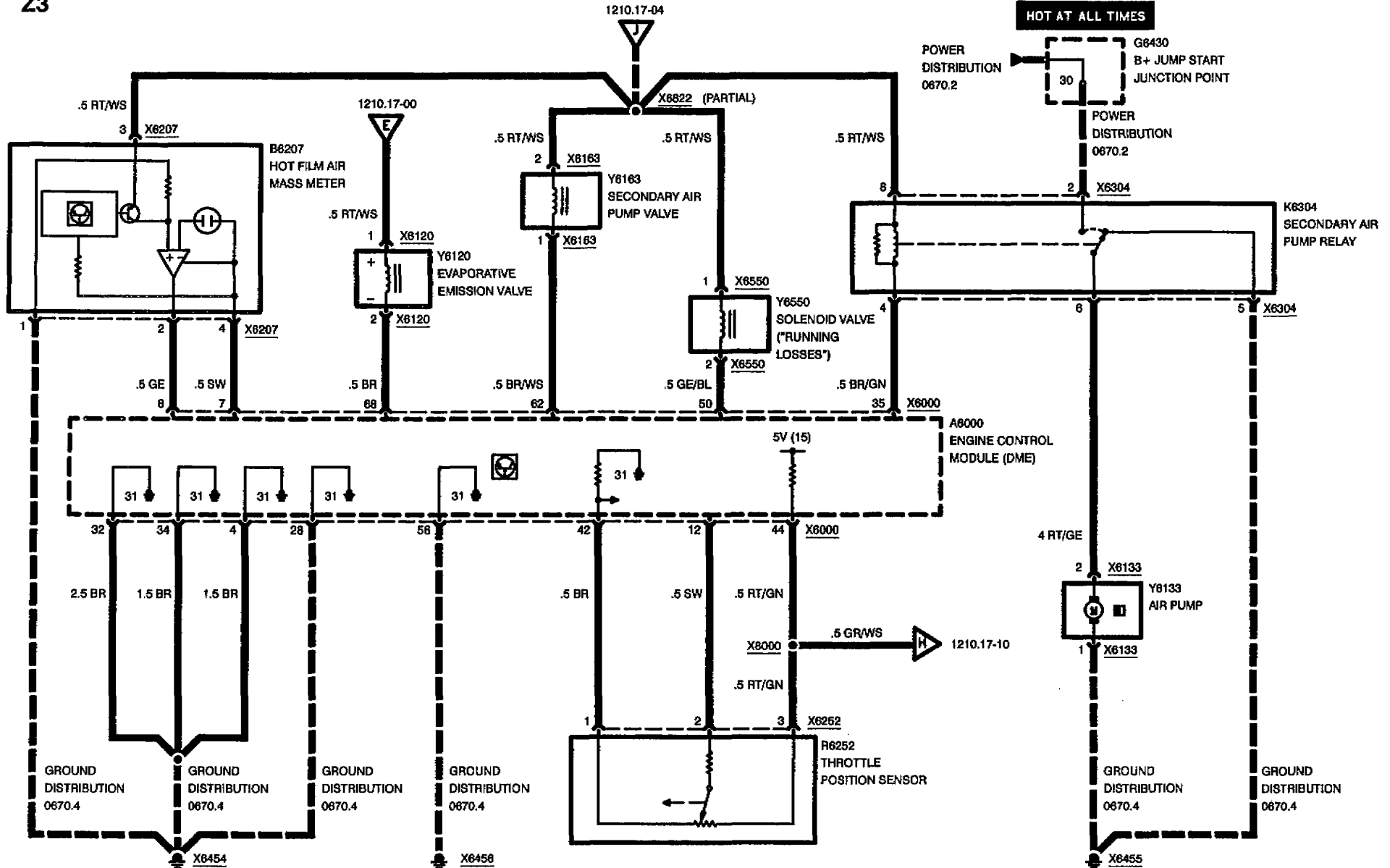


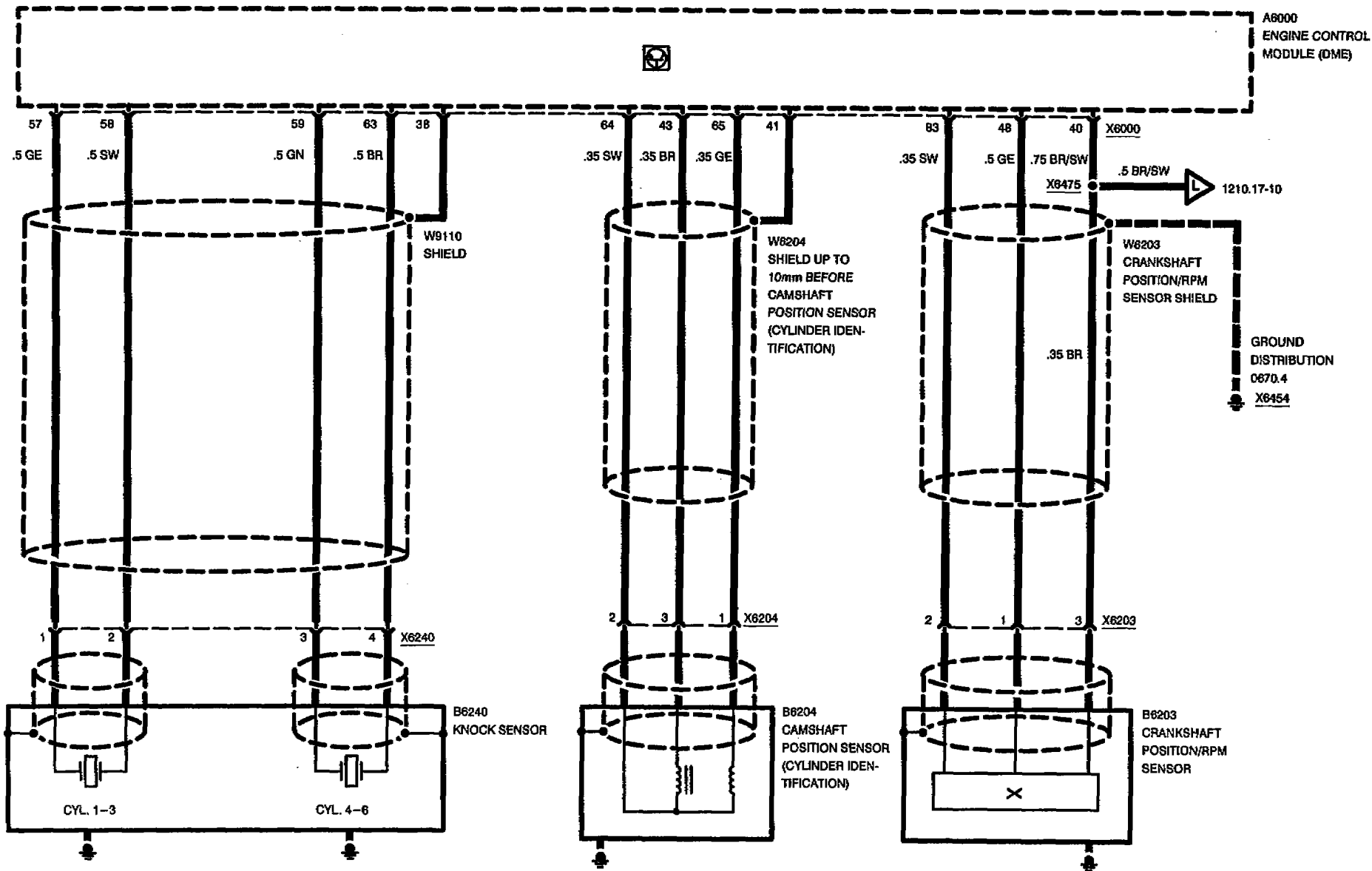


ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)



ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

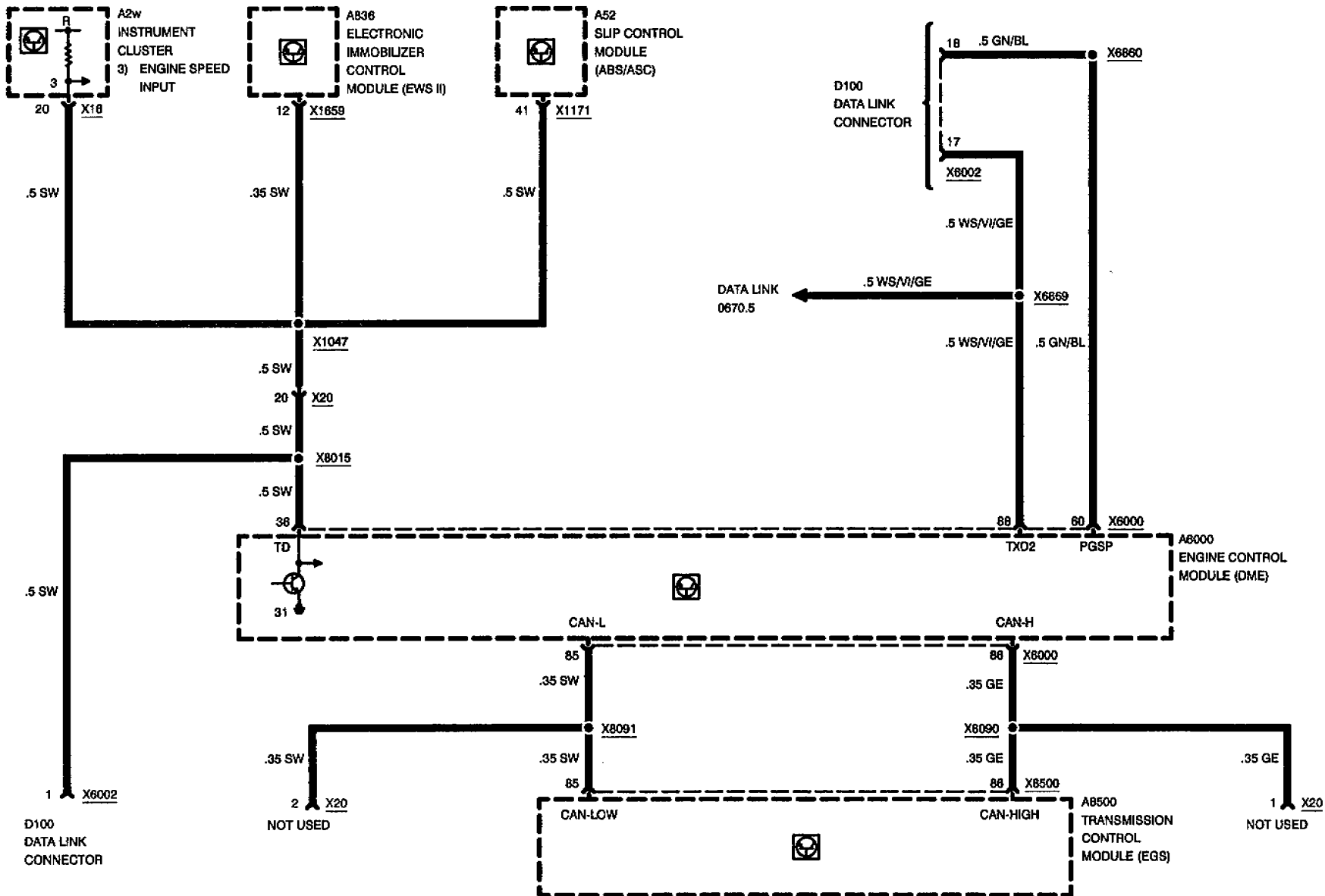






ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

Z3



09/97

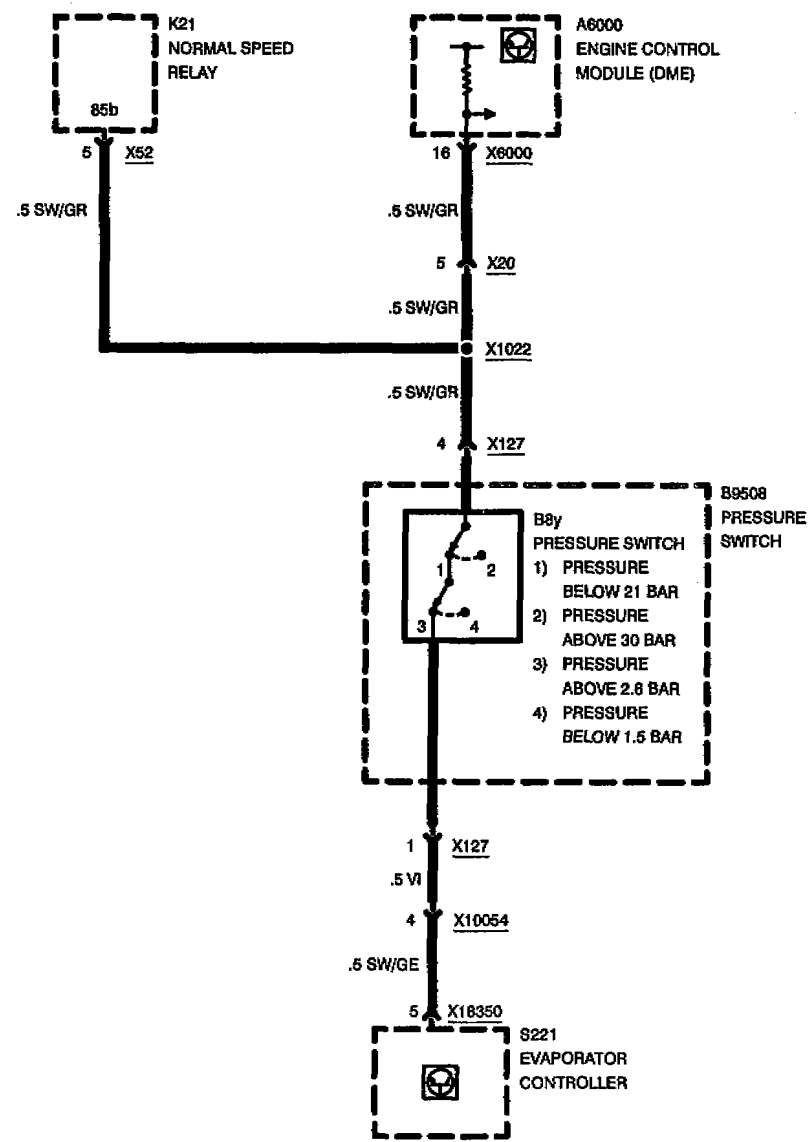
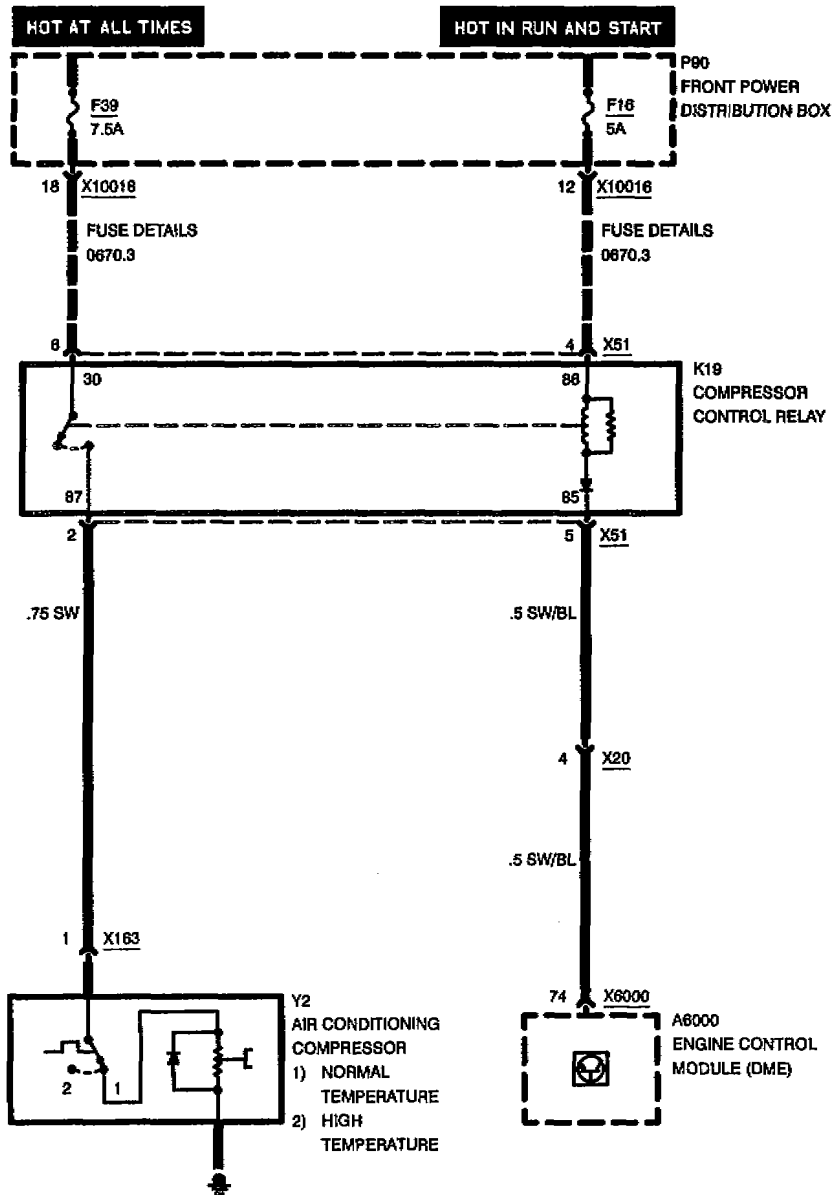
1210.17-07

1998



Z3

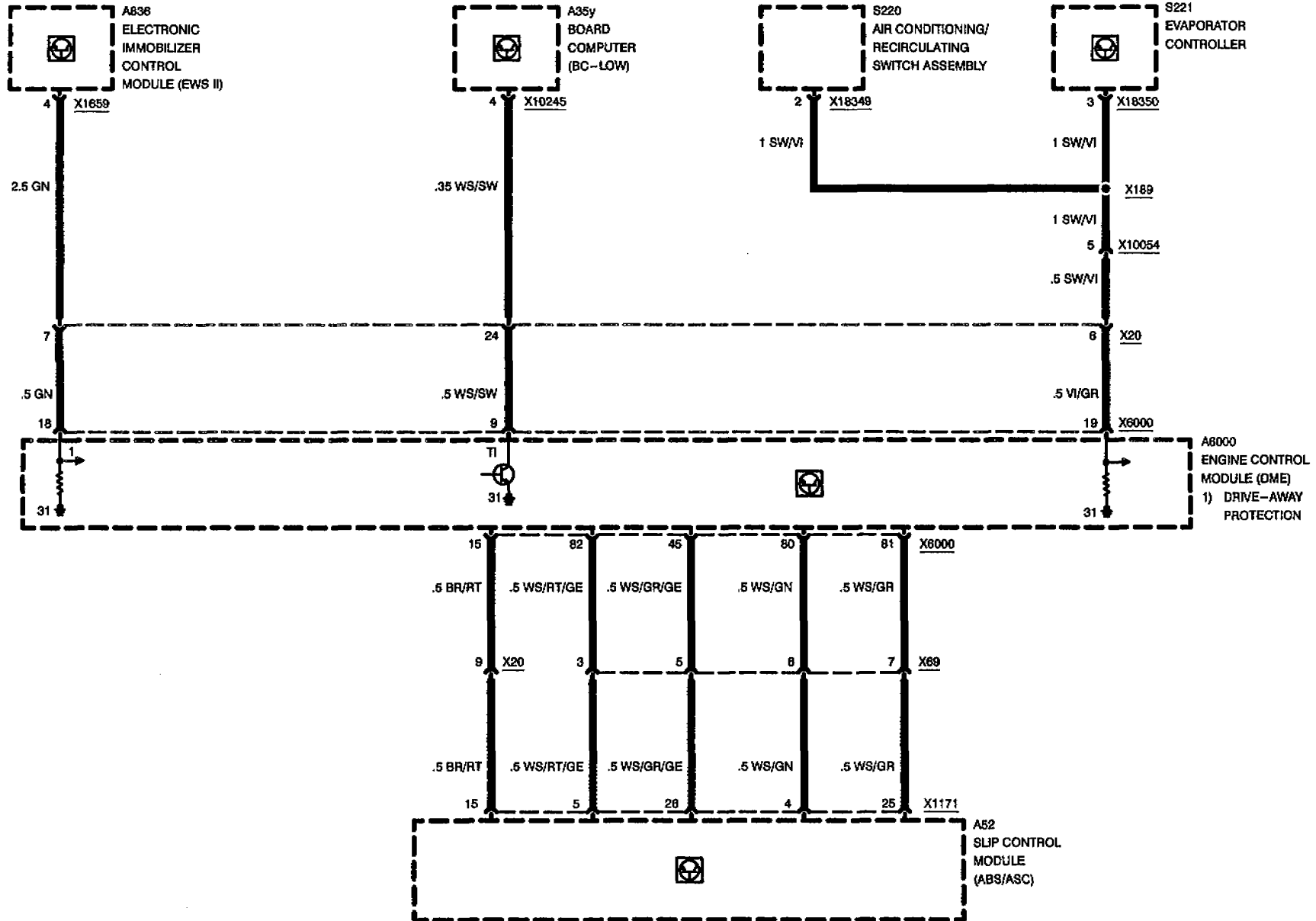
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)





ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

Z3



09/97

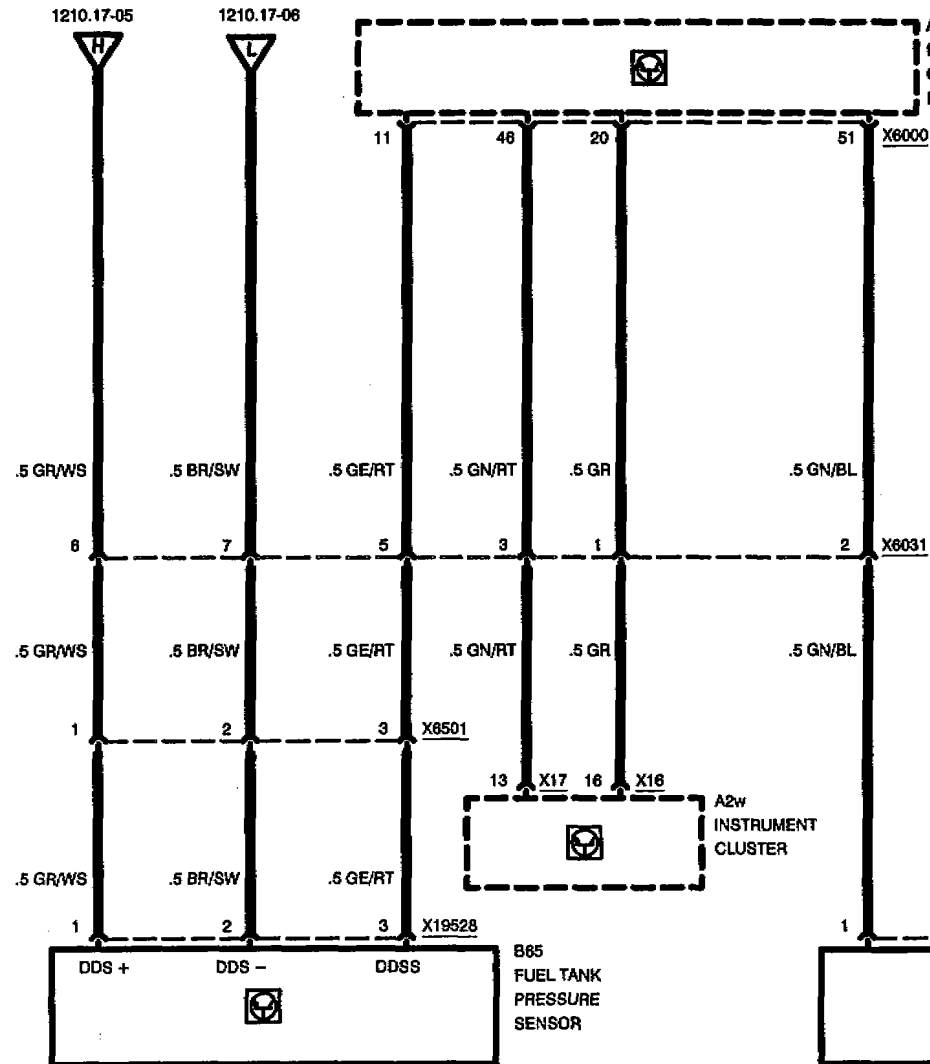
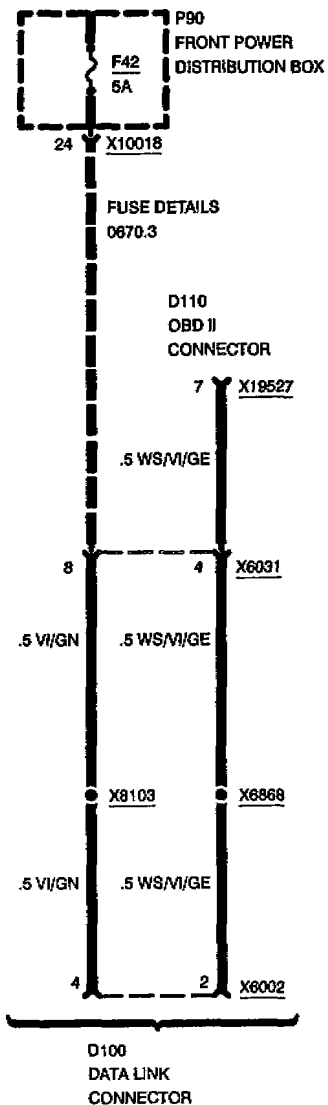
1210.17-09

1998

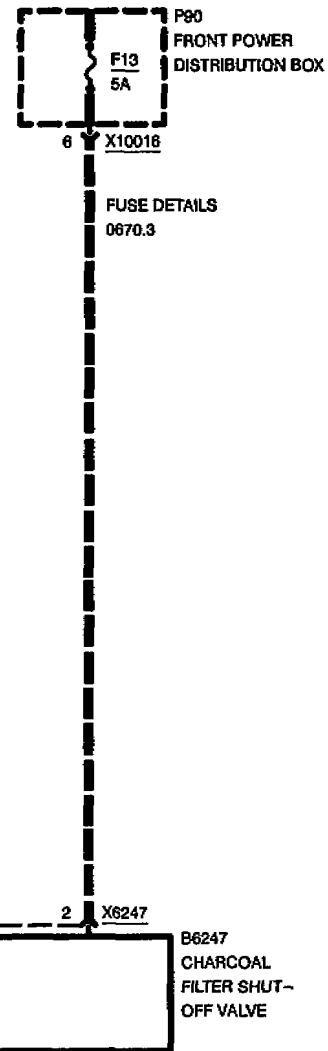
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

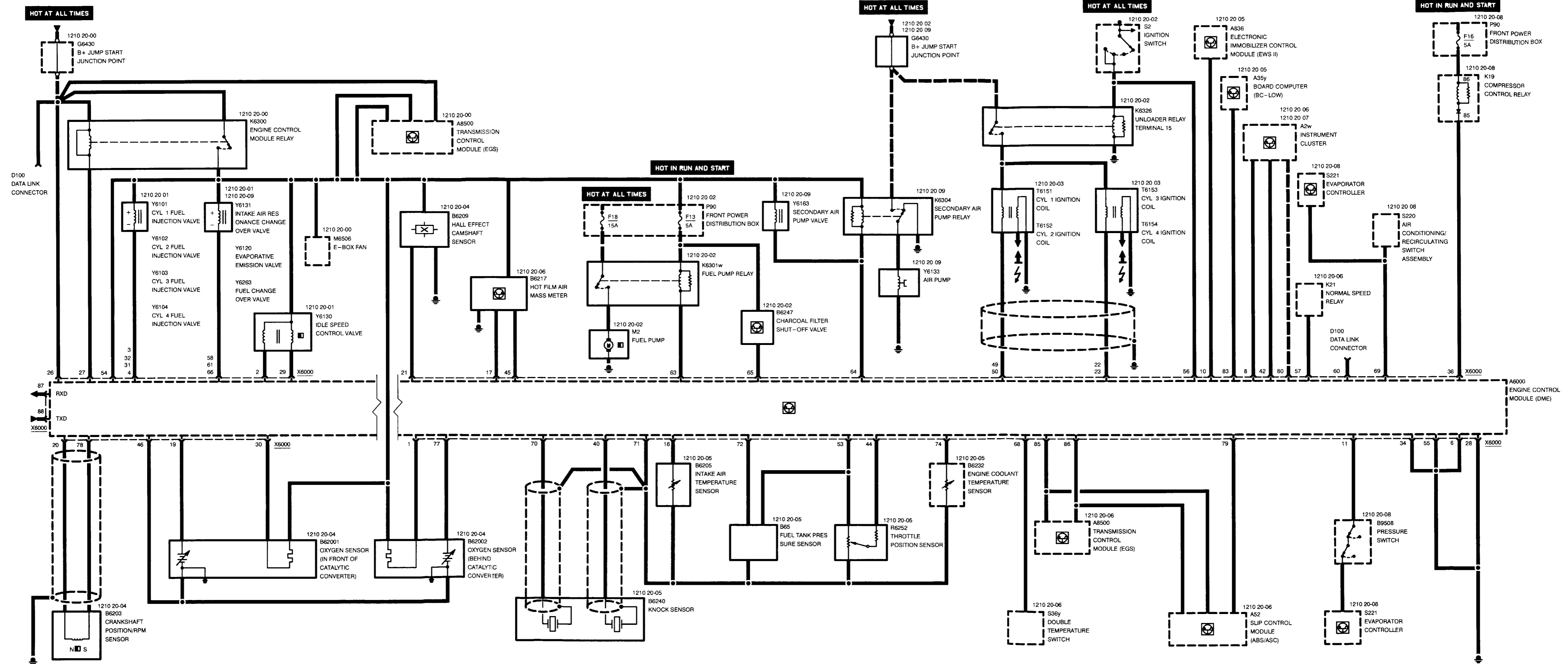
OBD II DIAGNOSIS

HOT IN ACCY RUN AND START

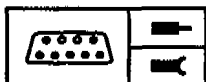


HOT IN RUN AND START





Z3



Pin Assignments

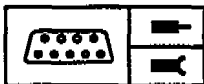
X6000

Pin	Type	Description/Function	Connection
1	A	Oxygen sensor heating (-)	Oxygen sensor (behind catalytic converter)
2	A	Activate valve	Idle speed control valve
3	A	Activate valve	Cyl. 1 fuel injection valve
4	A	Activate valve	Cyl. 4 fuel injection valve
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10	E	Drive away protection signal	Electronic immobilizer control module (EWS II)
11	E	Activate A/C	Pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Intake air temperature	Intake air temperature sensor
17	M	Ground	Hot film air mass meter
18		Not used	
19	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
20	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
21	E	Camshaft position	Hall effect camshaft sensor
22	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24		Not used	
25		Not used	
26	E	Battery voltage	B+ jump start junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground



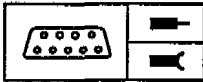
Z3

**Pin Assignments**

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30	A	Oxygen sensor heating	Oxygen sensor (in front of catalytic converter)
31	A	Activate valve	Cyl. 3 fuel injection valve
32	A	Activate valve	Cyl. 2 fuel injection valve
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	A/C compressor cut-out	Compressor control relay
37		Not used	
38		Not used	
39		Not used	
40	E	Cyl. 3-4 knock sensor	Knock sensor
41		Not used	
42	E	Ti-measurement signal (fuel consumption)	Instrument cluster
43		Not used	
44	E	Throttle position	Throttle position/fuel tank pressure sensors
45	E	Signal input	Hot film air mass meter
46	M	Sensor ground	Oxygen sensors
47		Not used	
48		Not used	
49	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
50	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
51		Not used	
52		Not used	
53	A	Component supply (+)	Throttle position sensor
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57	A	Activate auxiliary fan	Normal speed relay
58	A	Activate valve	Intake air resonance change over valve

E = Input, A = Output, M = Ground

Z3



Pin Assignments

Pin	Type	Description/Function	Connection
59		Not used	
60	E	Programming voltage	Data link connector
61	A	Activate valve	Evaporation emission valve
62		Not used	
63	A	Activate relay	Fuel pump relay
64	A	Activate air pump	Secondary air pump valve/relay
65	A	Activate valve	Charcoal filter shut-off valve
66	A	Activate valve	Fuel changeover valve
67		Not used	
68	E	Signal above 80°C	Double temperature switch
69	E	Signal A/C on	Air conditioning operating unit
70	E	Cyl 1-2 knock sensor	Knock sensor
71	M	Ground for sensors	Temperature/ knock/ throttle position/fuel tank pressure sensors
72	E	Fuel tank pressure	Fuel tank pressure sensor
73		Not used	
74	E	Temperature signal	Engine coolant temperature sensor
75		Not used	
76		Not used	
77	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
79	E	Speed signal right rear	ABS/ASC control module
80	E	Crankshaft RPM speed signal TD	Instrument cluster
81		Not used	
82		Not used	
83	E	Vehicle speed signal	Board computer (BC-Low)
84		Not used	
85	E/A	CAN-LOW	EGS/ASC control module
86	E/A	CAN-HIGH	EGS/ASC control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

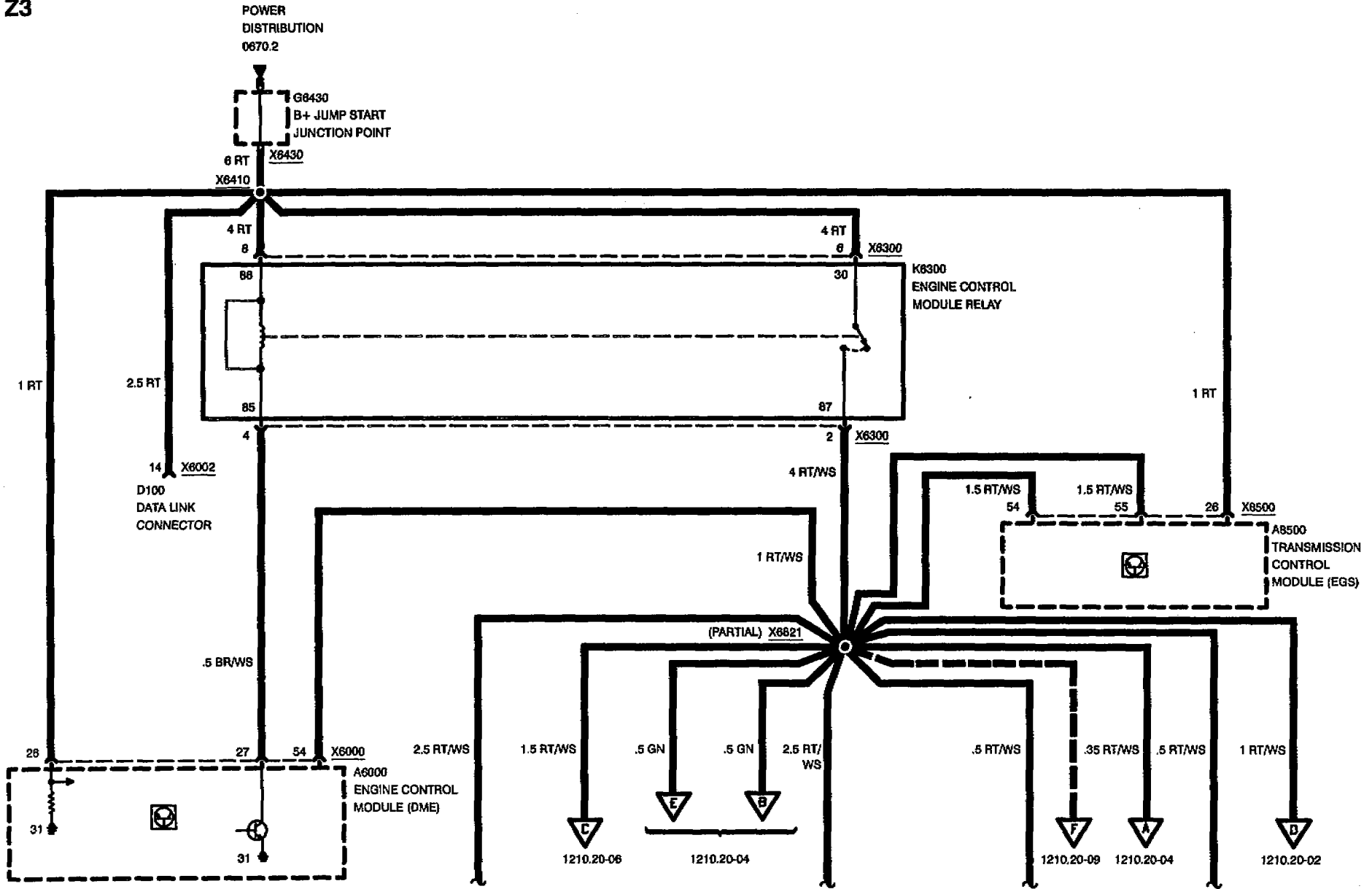
E = Input, A = Output, M = Ground



ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

POWER, FUEL INJECTION VALVES

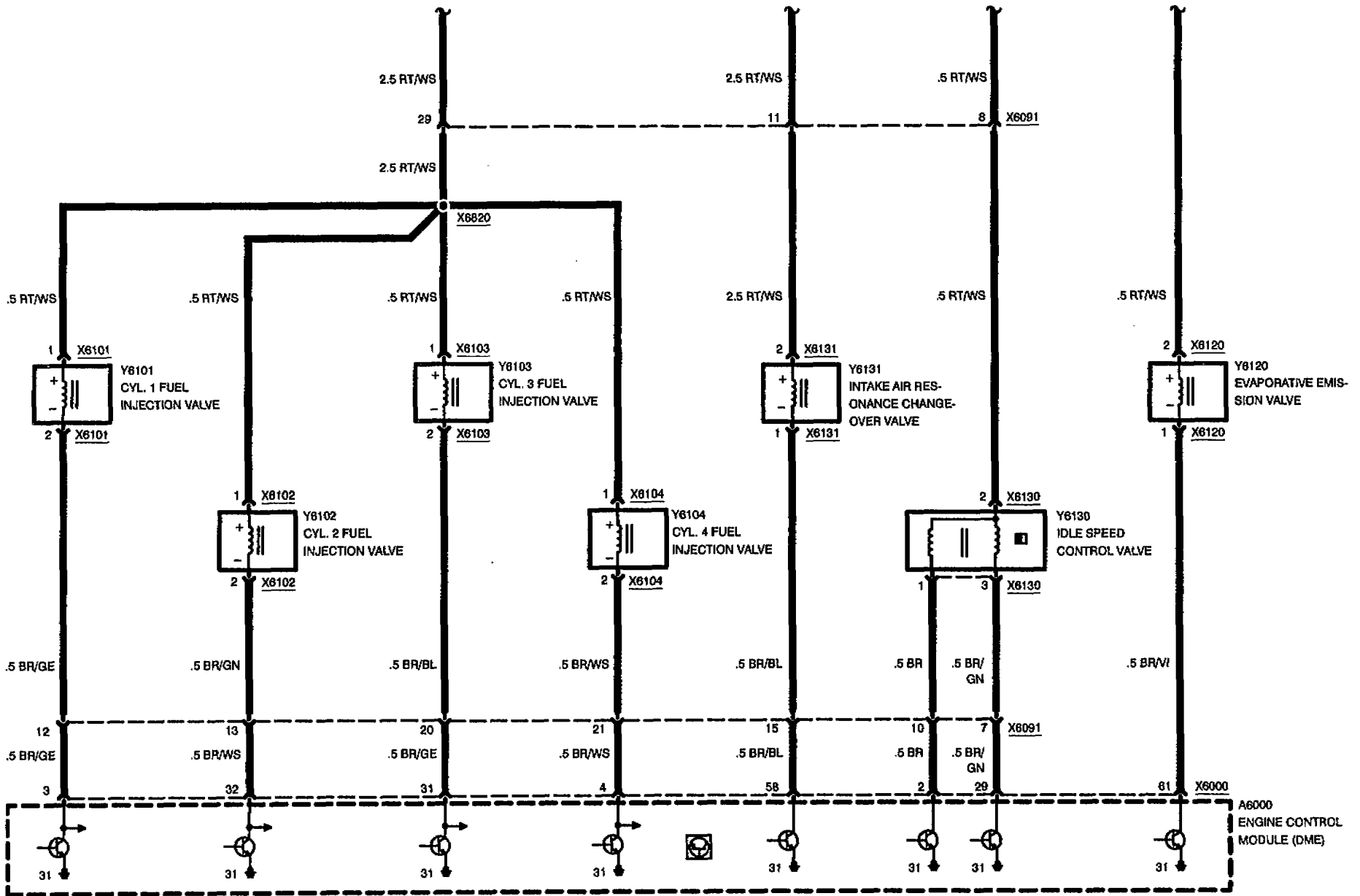
Z3



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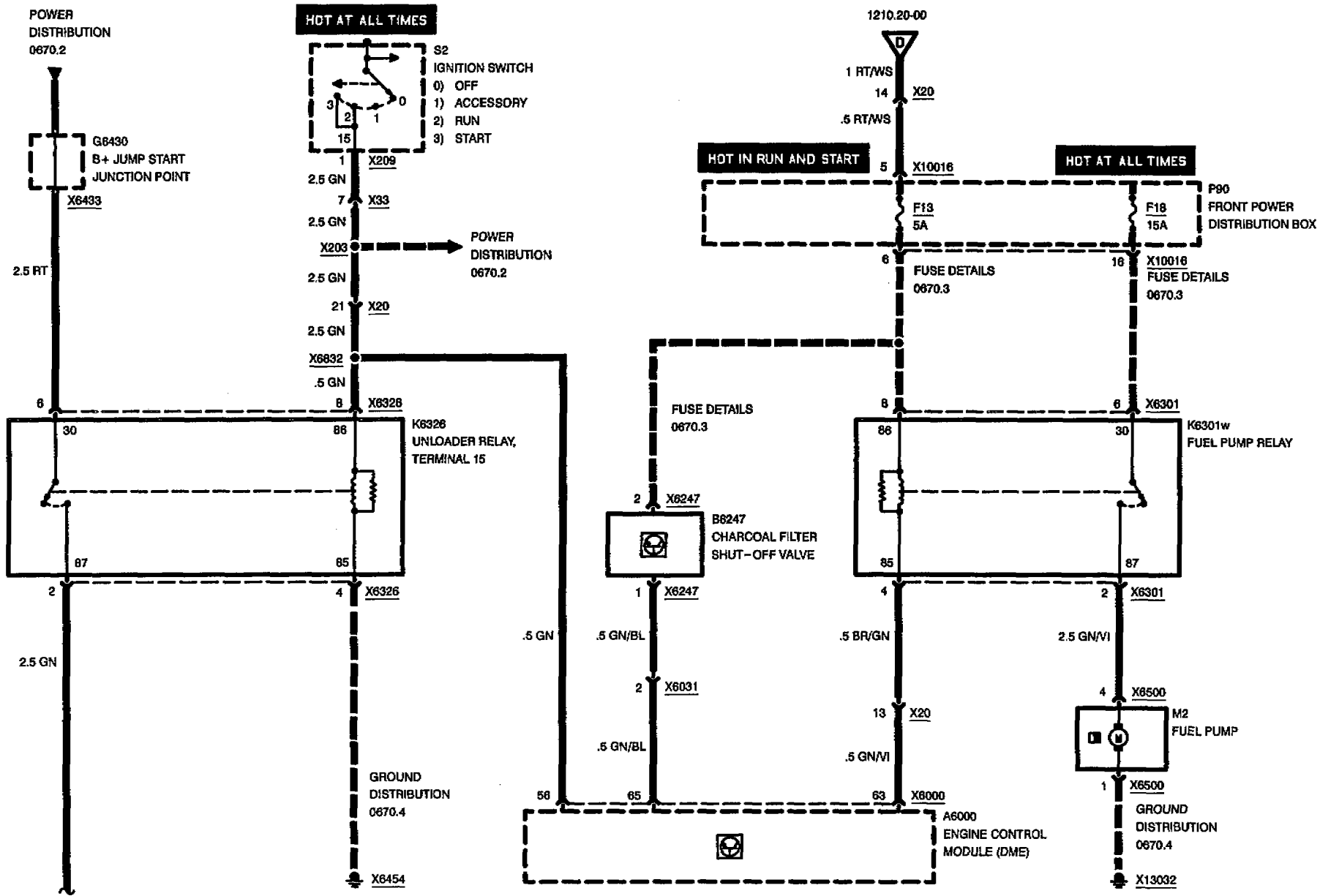
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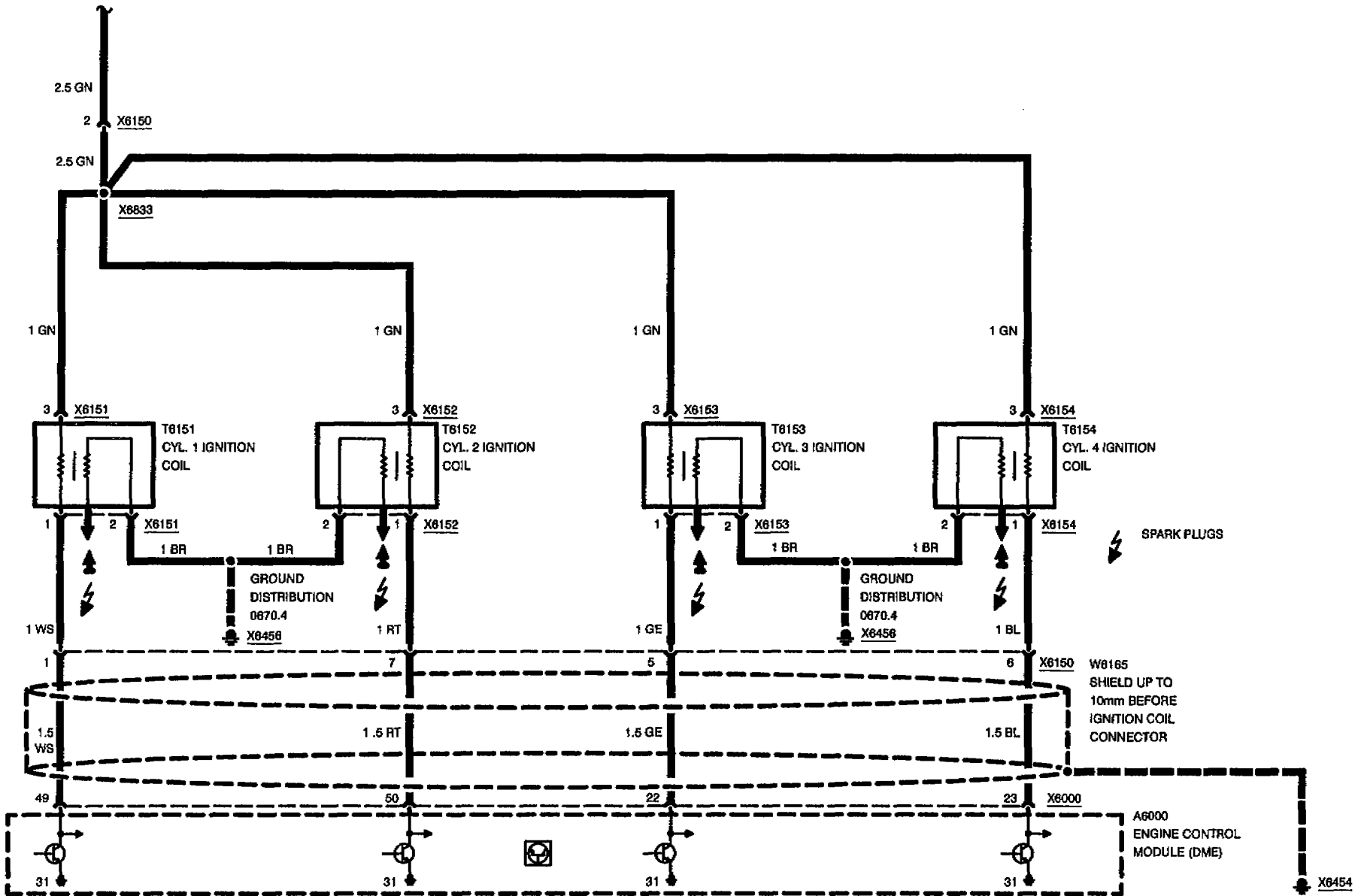


ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

IGNITION COILS AND FUEL PUMP

Z3



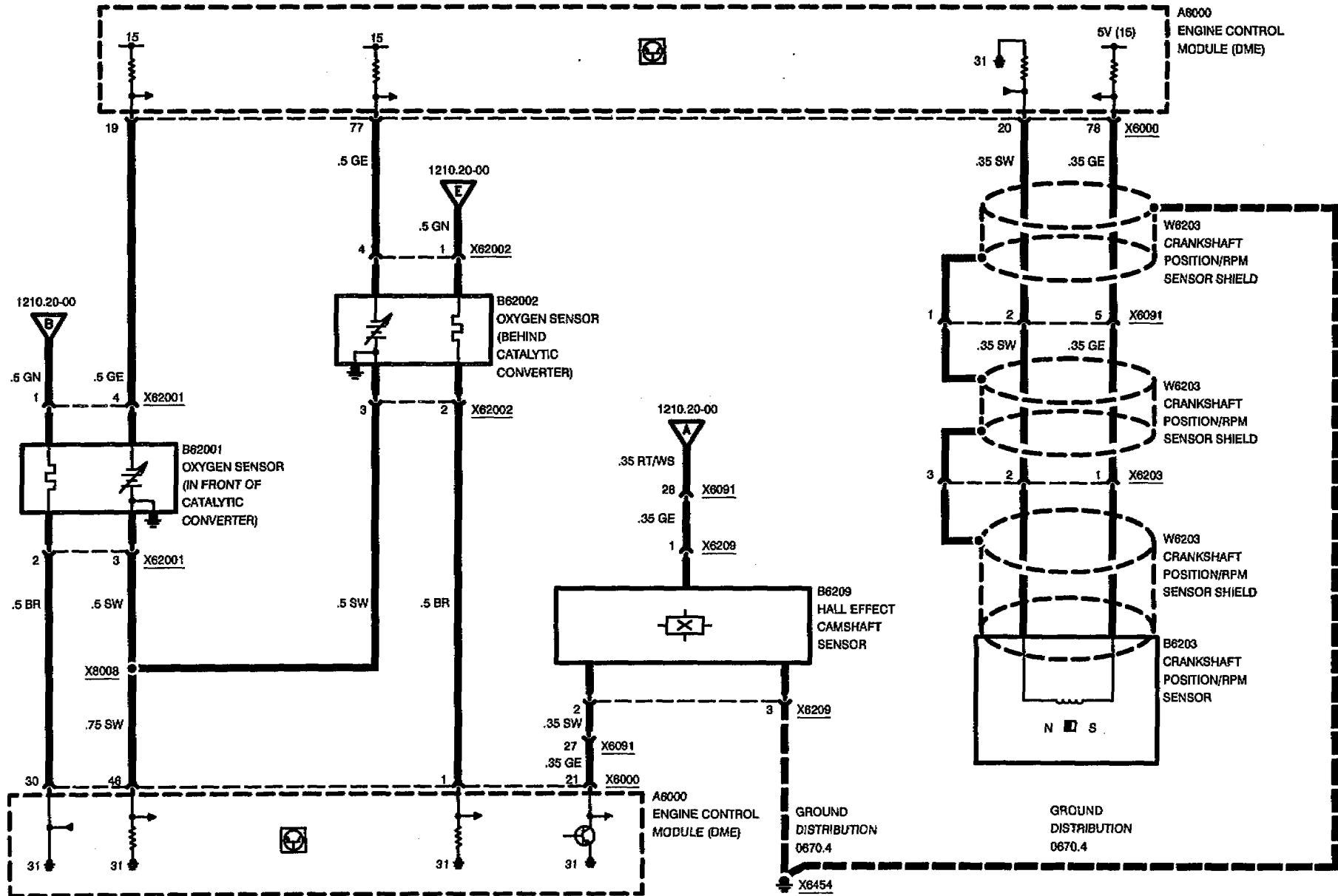




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ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



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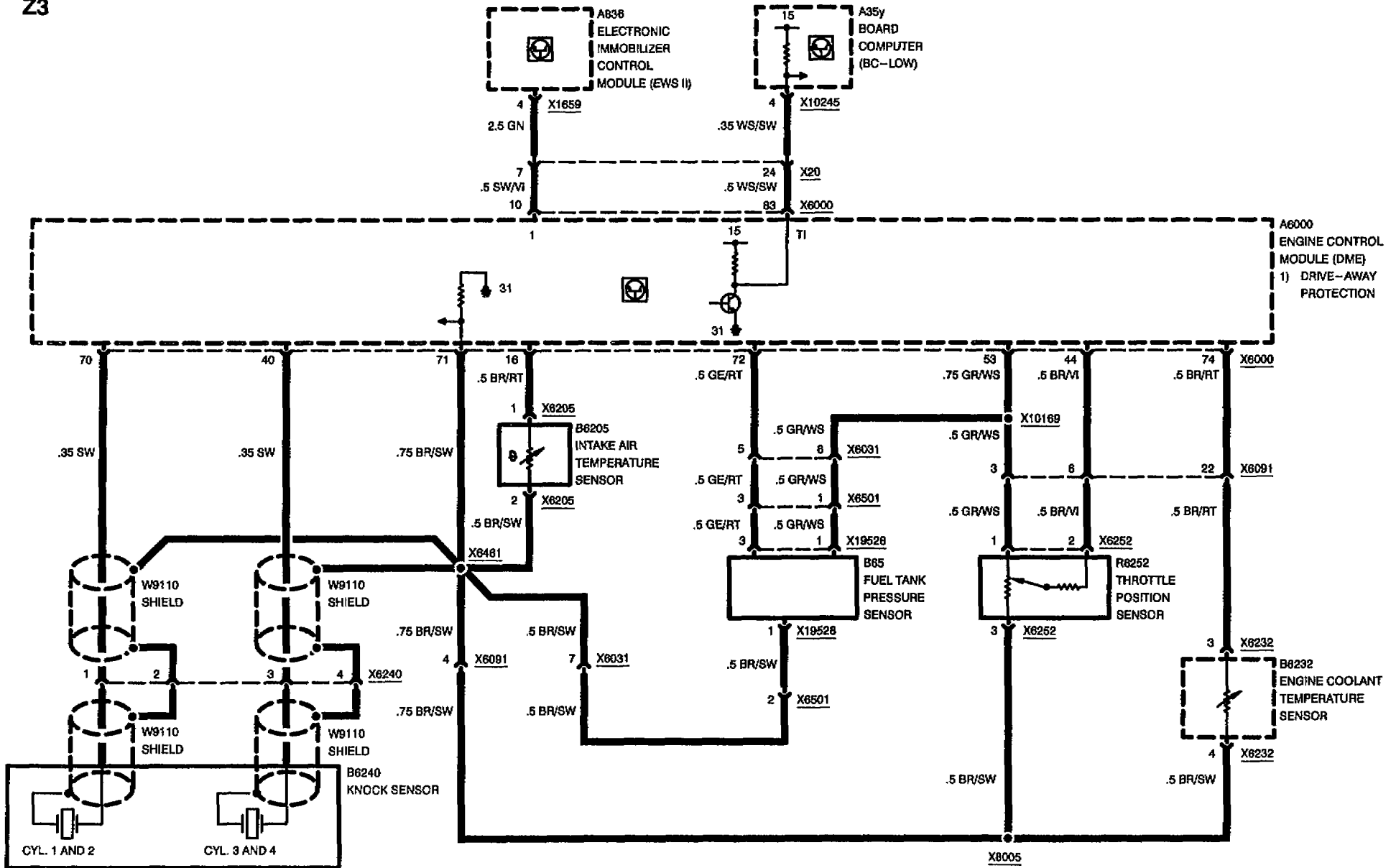
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ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

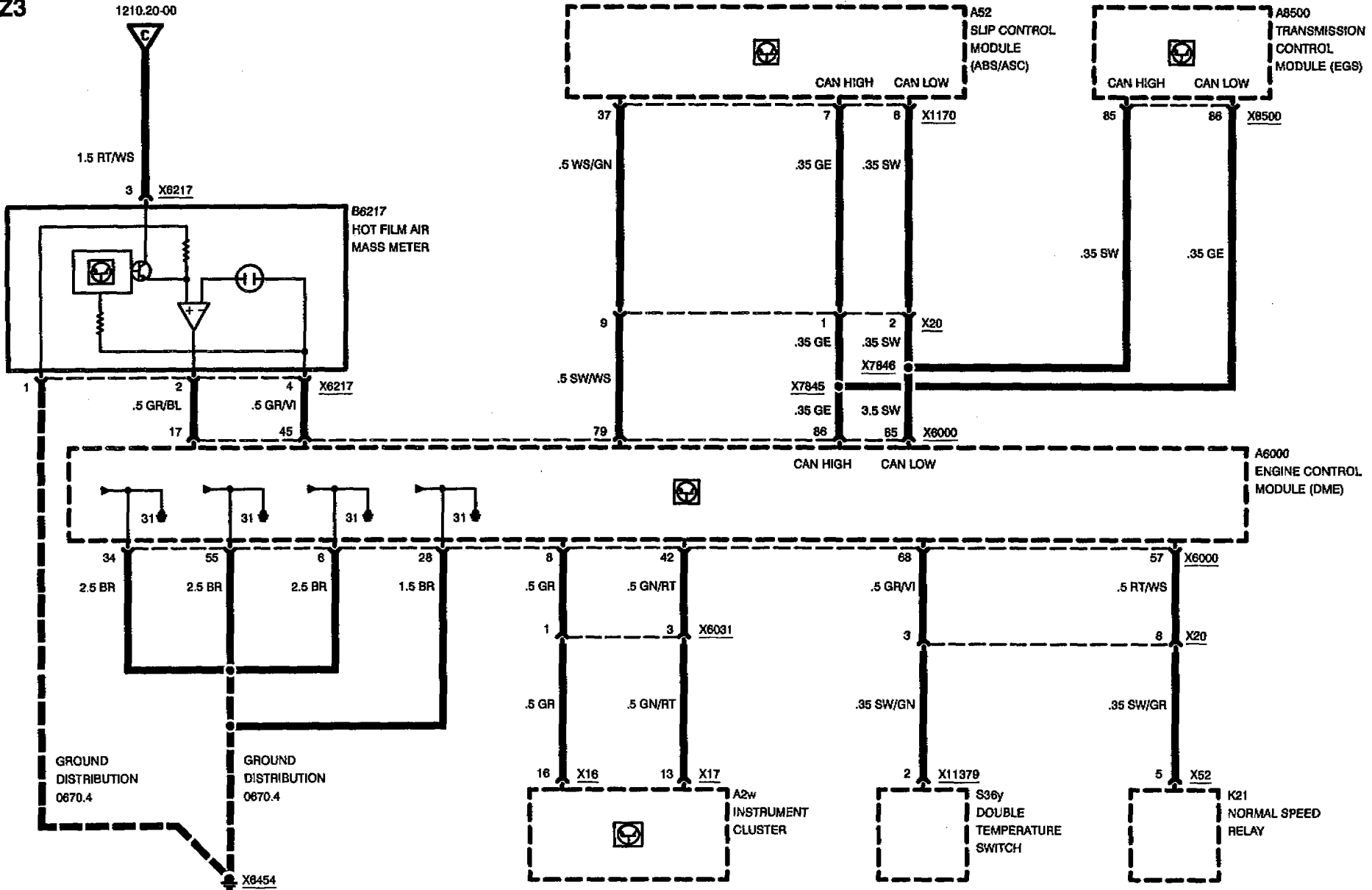


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ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

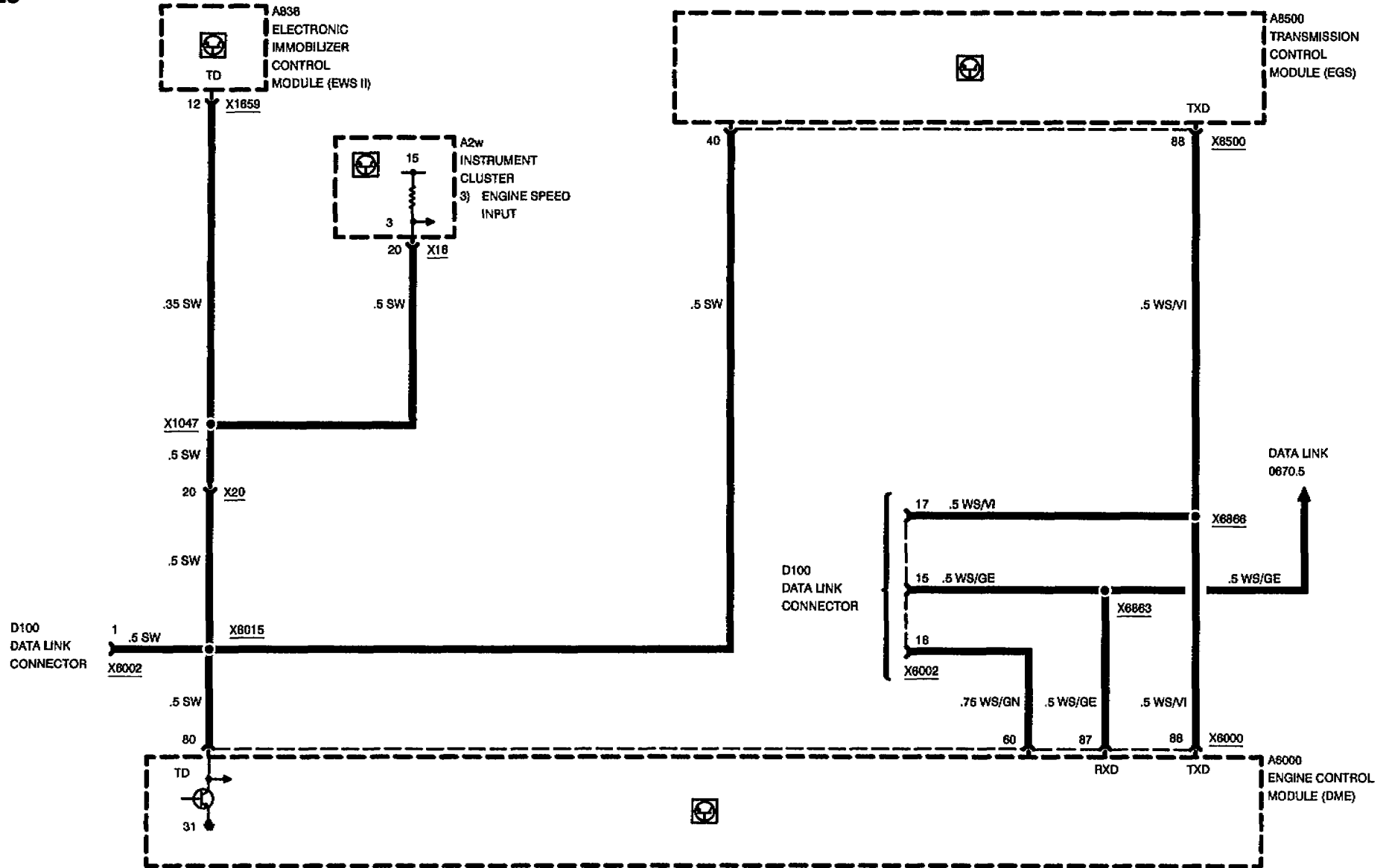




ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

DATA LINK

Z3



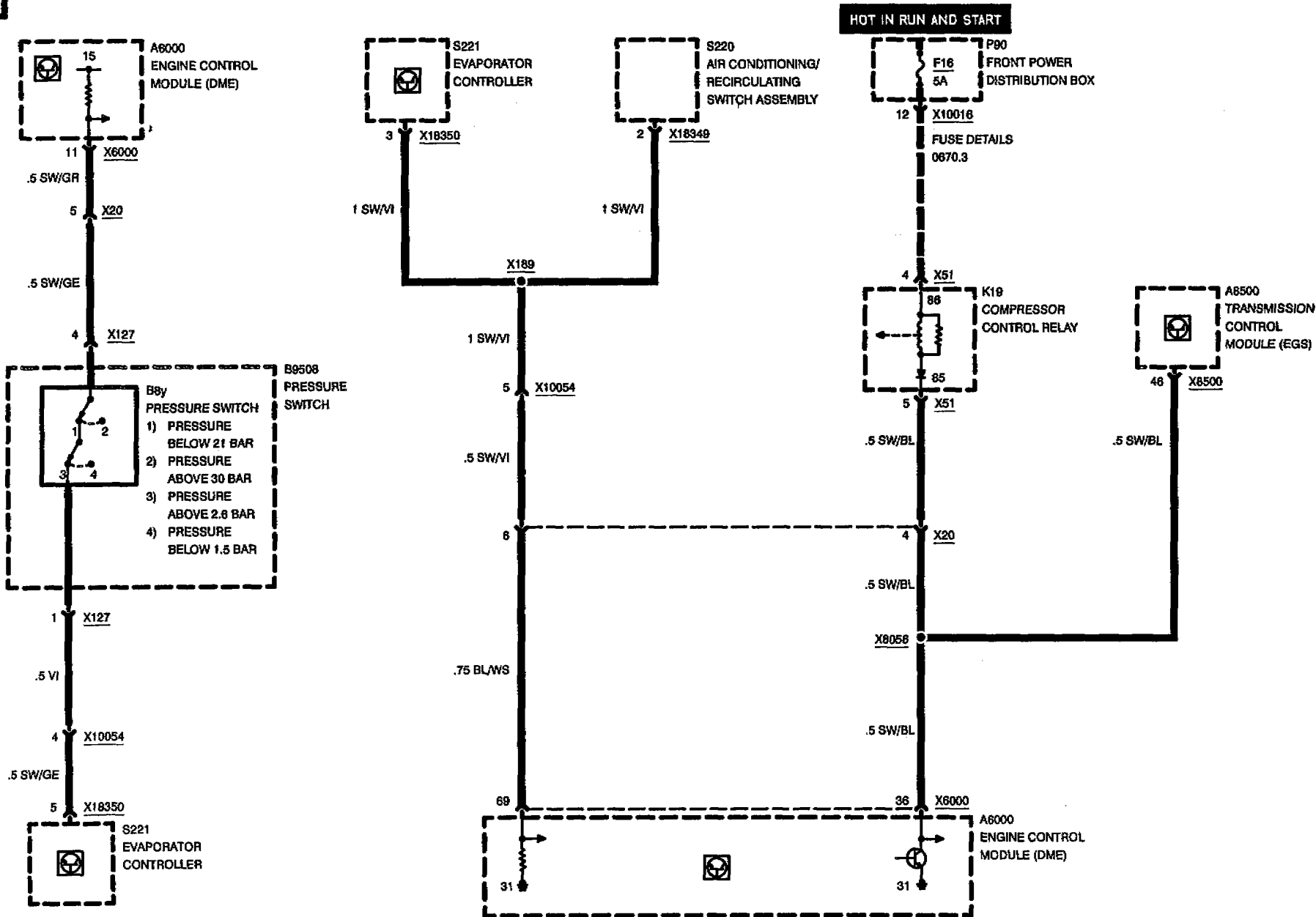
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ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

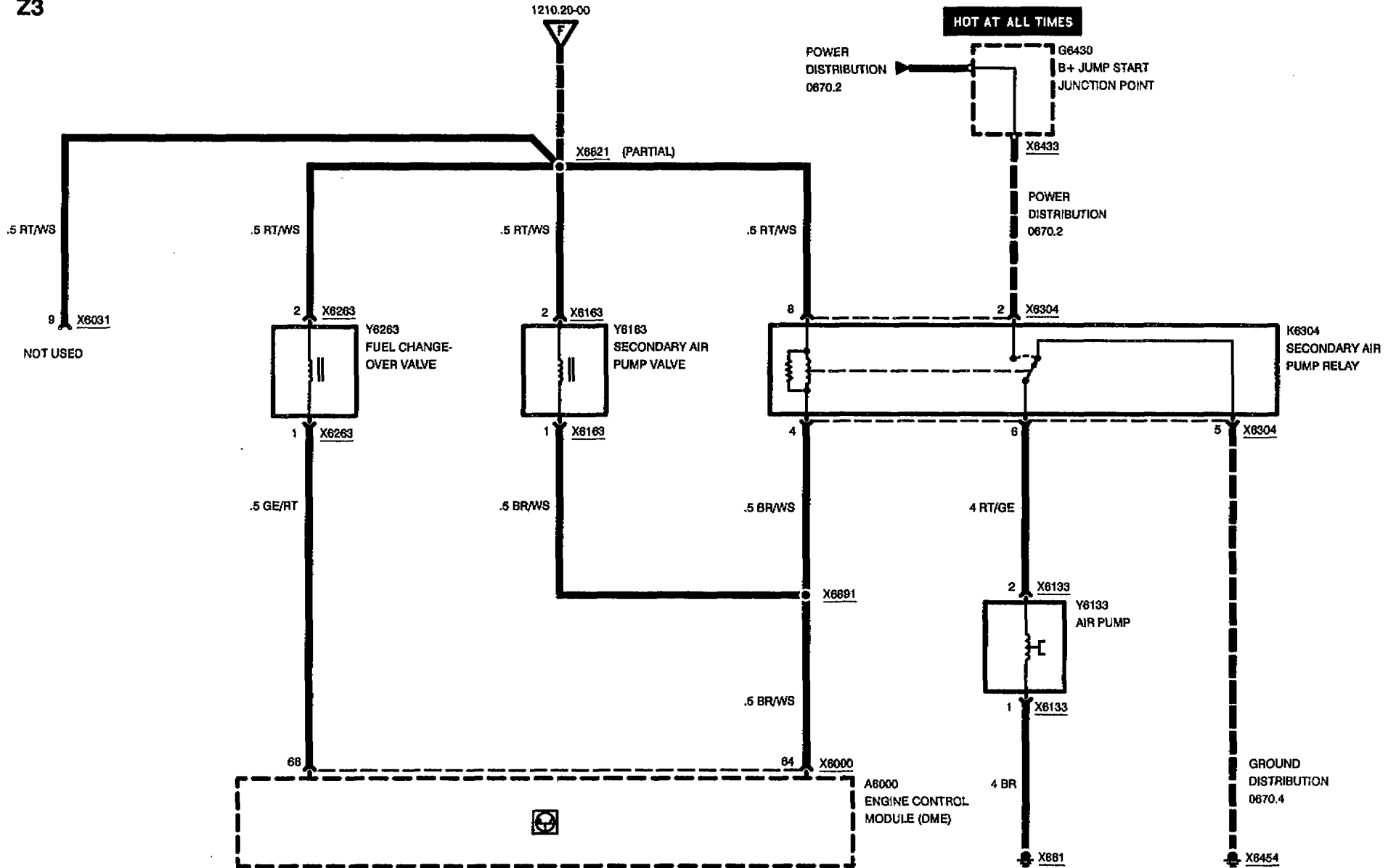
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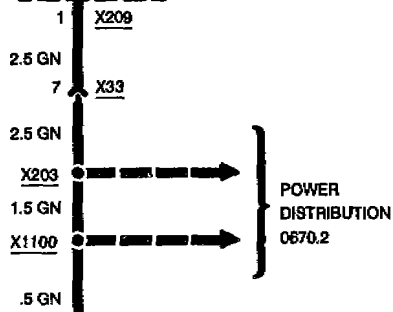
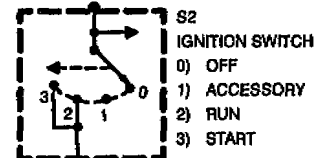


Z3

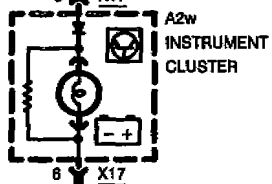
ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)



HOT AT ALL TIMES



POWER DISTRIBUTION 0670.2



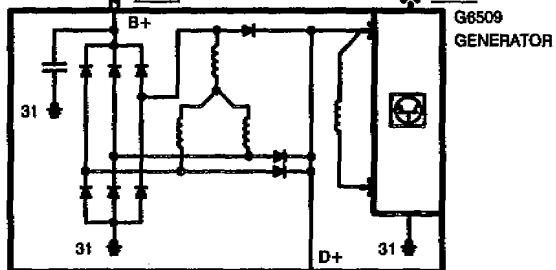
.5 BL

HOT AT ALL TIMES

POWER DISTRIBUTION 0670.2

18 FT

X6509



G6509
GENERATOR

6-CYLINDER

HOT IN RUN AND START

F26
10A
P90
FRONT POWER DISTRIBUTION BOX

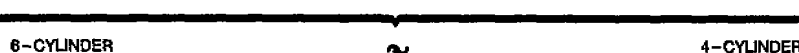
12

X10017

FUSE DETAILS 0670.3

1

X6524

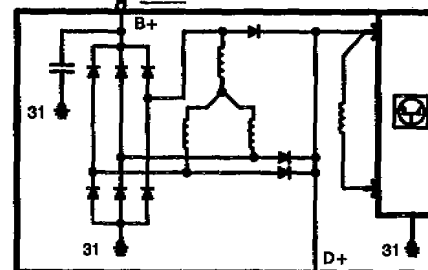


HOT AT ALL TIMES

POWER DISTRIBUTION 0670.2

10 FT

X6509



G6509
GENERATOR

1.5 BL

X7509

8

X8091

4-CYLINDER

1.5 BL

X8004

.5 BL

25

X20

.5 BL

.5 BL

.5 BL

3

X400

TELEPHONE CONNECTOR

.75 BL

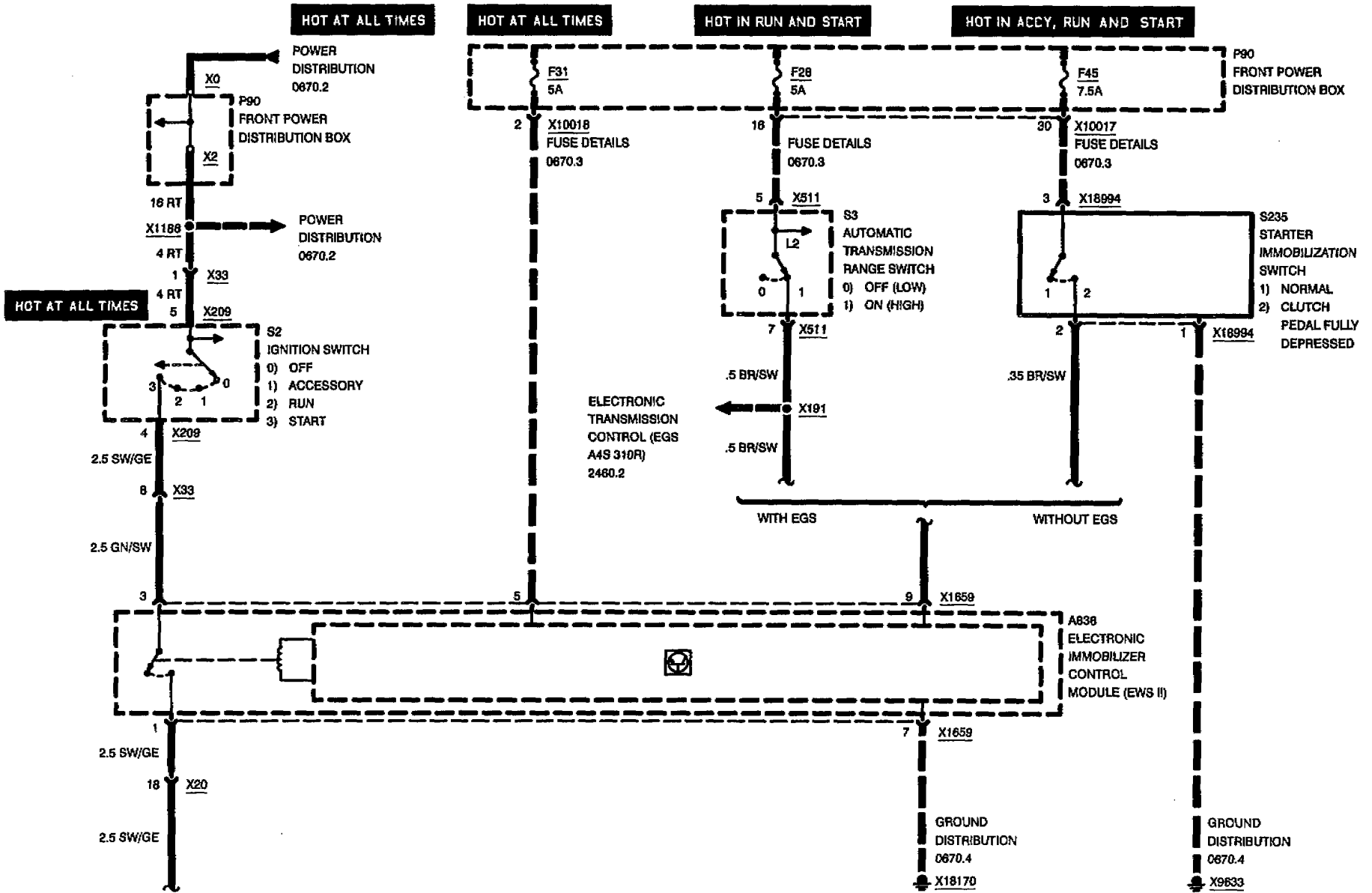
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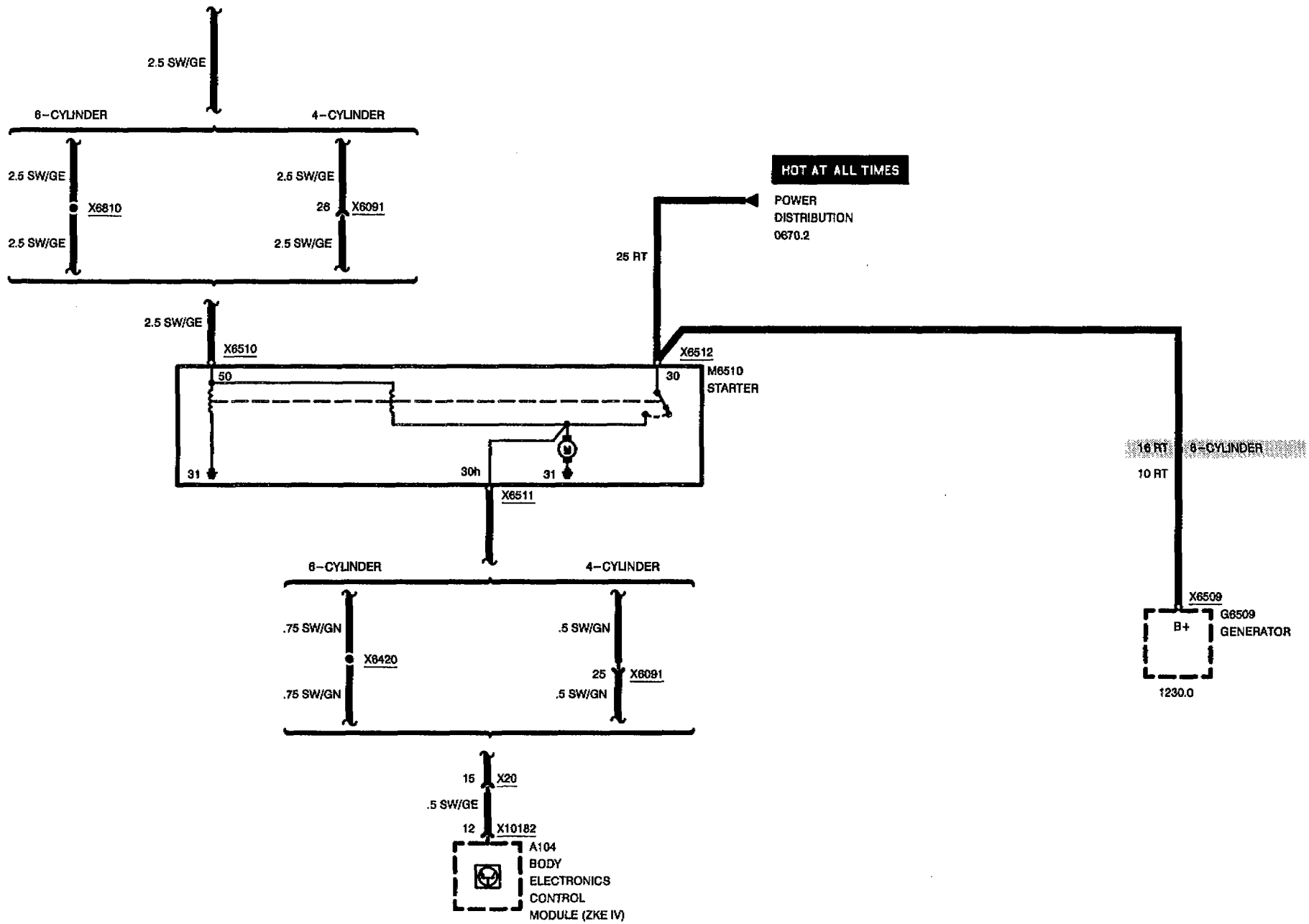
X8002

D100

DATA LINK CONNECTOR

START



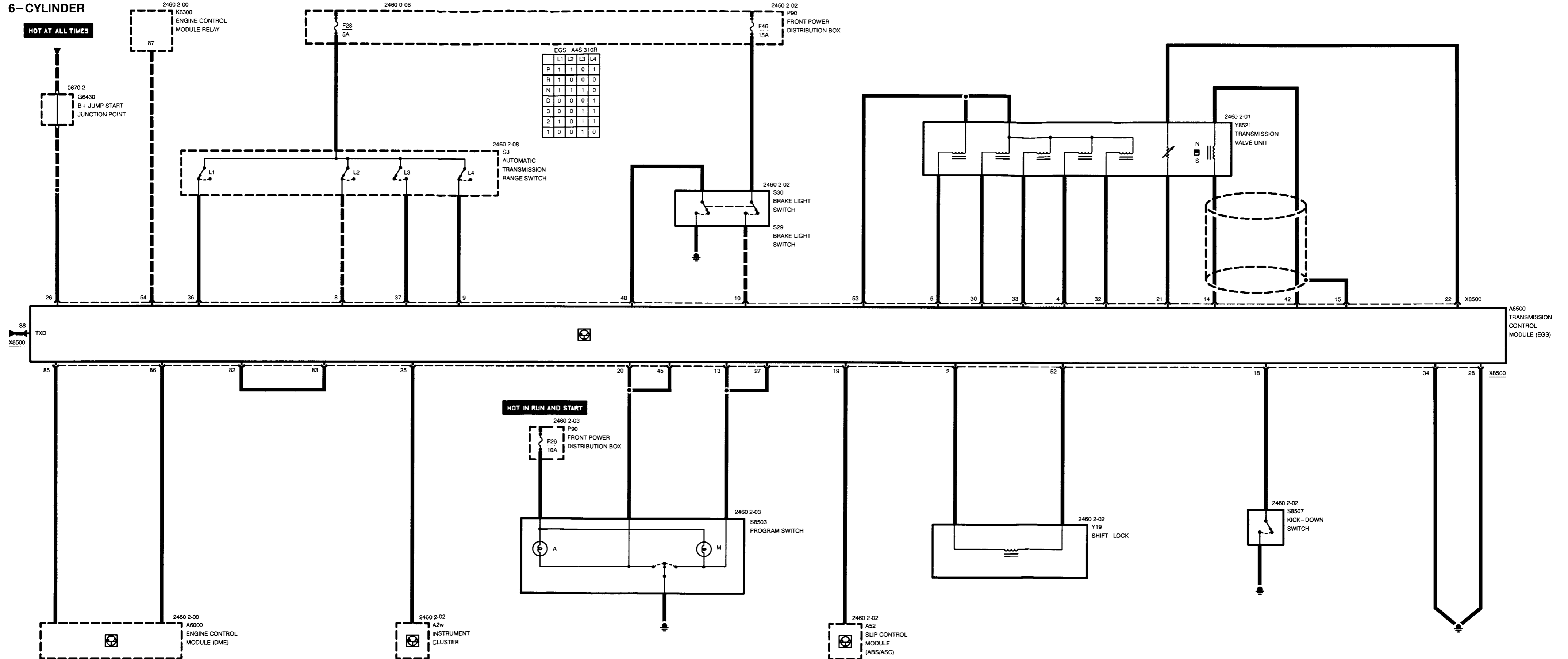


6-CYLINDER

HOT AT ALL TIMES

HOT IN RUN AND START

HOT IN RUN AND START

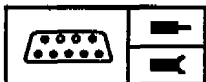


EGS A4S 310R

	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

A8500 TRANSMISSION CONTROL MODULE (EGS)

Z3



Pin Assignments

6-Cylinder

X8500

Pin	Type	Description/Function	Connection
1		Not used	
2	M	Ground	Shift-lock
3		Not used	
4	A	Solenoid valve 3 control (-)	Transmission valve unit
5	A	Hydraulic pressure regulator control (-)	Transmission valve unit
6		Not used	
7		Not used	
8	E	Gear range signal L2	Automatic transmission range switch
9	E	Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12		Not used	
13	E	Manual mode signal	Program switch
14	E	Output speed (-)	Transmission valve unit
15	M	Ground for shield	Shield for speed sensor
16		Not used	
17		Not used	
18	E	Kick-down signal	Kick-down switch
19	E	ASC signal	Slip control module
20	E	Automatic mode signal	Program switch
21	E	Oil temperature signal (-)	Transmission valve unit
22	E	Oil temperature signal (+)	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	B+ jump start junction point
27	A	M-program indication	Program switch
28	M	Ground	Ground point
29		Not used	
30	A	Solenoid valve 1 control (-)	Transmission valve unit

E = Input, A = Output, M = Ground



Z3

**Pin Assignments****6-Cylinder**

Pin	Type	Description/Function	Connection
31		Not used	
32	A	Torque converter clutch solenoid valve control (-)	Transmission valve unit
33	A	Solenoid valve 2 control (-)	Transmission valve unit
34	M	Ground	Ground point
35		Not used	
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	E	Output speed (+)	Transmission valve unit
43		Not used	
44		Not used	
45	A	A-program indication	Program switch
46		Not used	
47		Not used	
48	E	Brake switch test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Shift-lock solenoid control	Shift-lock
53	A	Voltage solenoid valves	Transmission valve unit
54	E	Voltage supply terminal 87	Engine control module relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	

E = Input, A = Output, M = Ground



Z3

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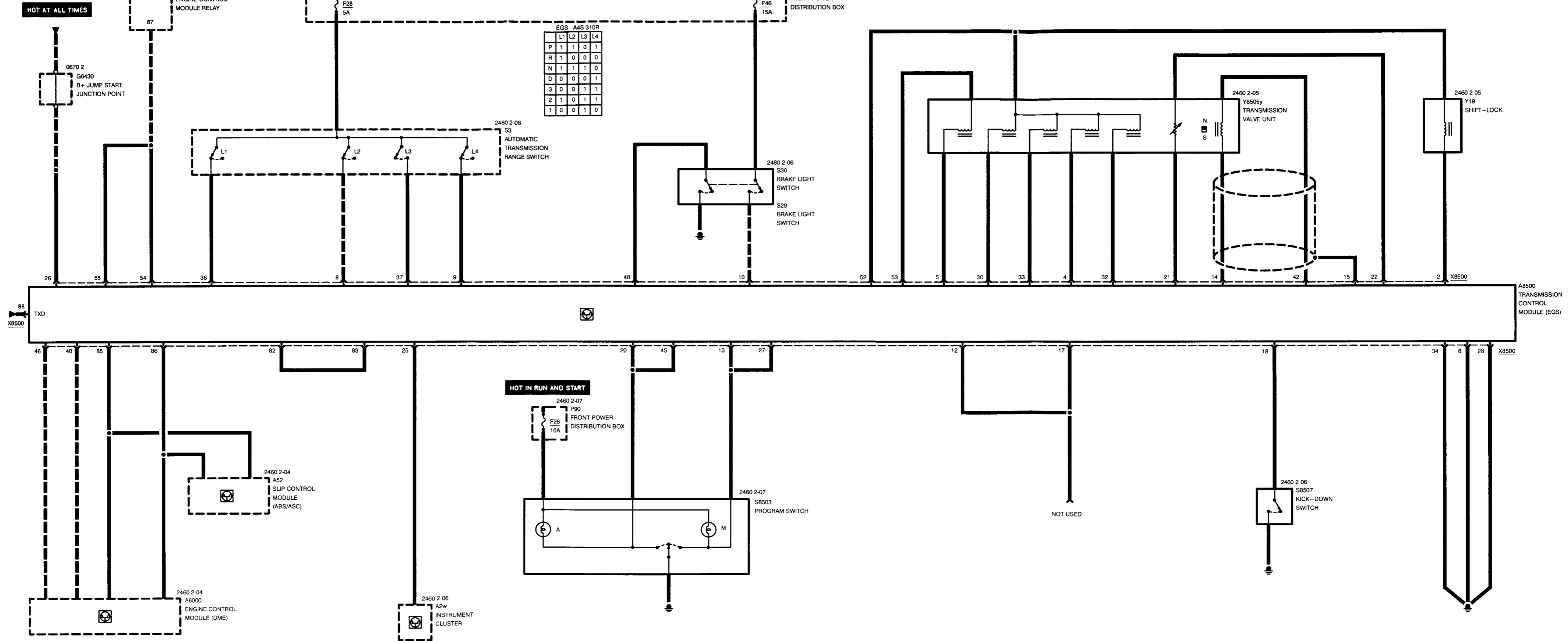
Pin Assignments

6-Cylinder

Pin	Type	Description/Function	Connection
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	
83	E/A	Jumper plug	
84		Not used	
85	E/A	CAN-LOW	Engine control module
86	E/A	CAN-HIGH	Engine control module
87		Not used	
88	E/A	TxD diagnostic data link	Data link connector

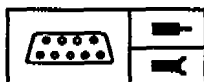
E = Input, A = Output, M = Ground

4-CYLINDER





Z3

**Pin Assignments****4-Cylinder****X8500**

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Shift-lock solenoid control	Shift-lock
3		Not used	
4	A	Solenoid valve 3 control (-)	Transmission valve unit
5	A	Hydraulic pressure regulator control (-)	Transmission valve unit
6	M	Ground	Ground point
7		Not used	
8	E	Gear range signal L2	Automatic transmission range switch
9	E	Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12	E	Sport mode signal	Not used
13	E	Manual mode signal	Program switch
14	E	Output speed (-)	Transmission valve unit
15	M	Ground for shield	Shield for speed sensor
16		Not used	
17	A	S-program indication	Not used
18	E	Kick-down signal	Kick-down switch
19		Not used	
20	E	Automatic mode signal	Program switch
21	E	Oil temperature signal (-)	Transmission valve unit
22	E	Oil temperature signal (+)	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	B+ Jump start junction point
27	A	M-program indication	Program switch
28	M	Ground	Ground point
29		Not used	
30	A	Solenoid valve 1 control (-)	Transmission valve unit

E = Input, A = Output, M = Ground



Z3

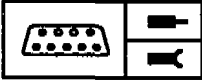
**Pin Assignments****4-Cylinder**

Pin	Type	Description/Function	Connection
31		Not used	
32	A	Torque converter clutch solenoid valve control (-)	Transmission valve unit
33	A	Solenoid valve 2 control (-)	Transmission valve unit
34	M	Ground	Ground point
35		Not used	
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40	E	RPM speed signal TD	Engine control module
41		Not used	
42	E	Output speed (+)	Transmission valve unit
43		Not used	
44		Not used	
45	A	A-program indication	Program switch
46	E	A/C compressor-ON-signal	Engine control module
47		Not used	
48	E	Brake switch test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Voltage supply	Shift-lock/Transmission valve unit
53	E	Voltage pressure regulator	Transmission valve unit
54	E	Voltage supply terminal 87	Engine control module relay
55	E	Voltage supply terminal 87	Engine control module relay
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	

E = Input, A = Output, M = Ground



Z3

**Pin Assignments****4-Cylinder**

Pin	Type	Description/Function	Connection
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	
83	E/A	Jumper plug	
84		Not used	
85	E/A	CAN-LOW	Engine control module
86	E/A	CAN-HIGH	Engine control module
87		Not used	
88	E/A	TxD diagnostic data link	Data link connector

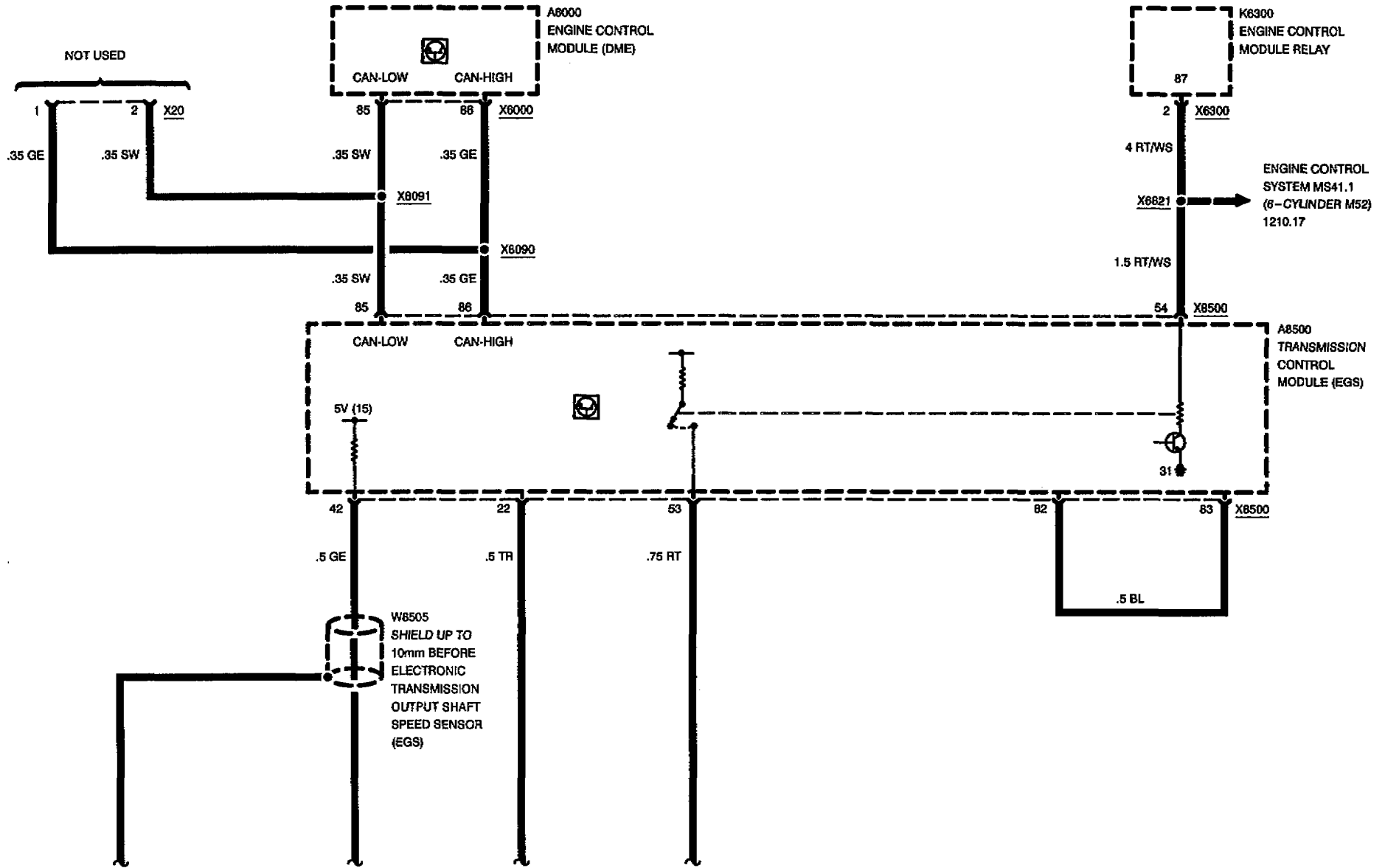
E = Input, A = Output, M = Ground

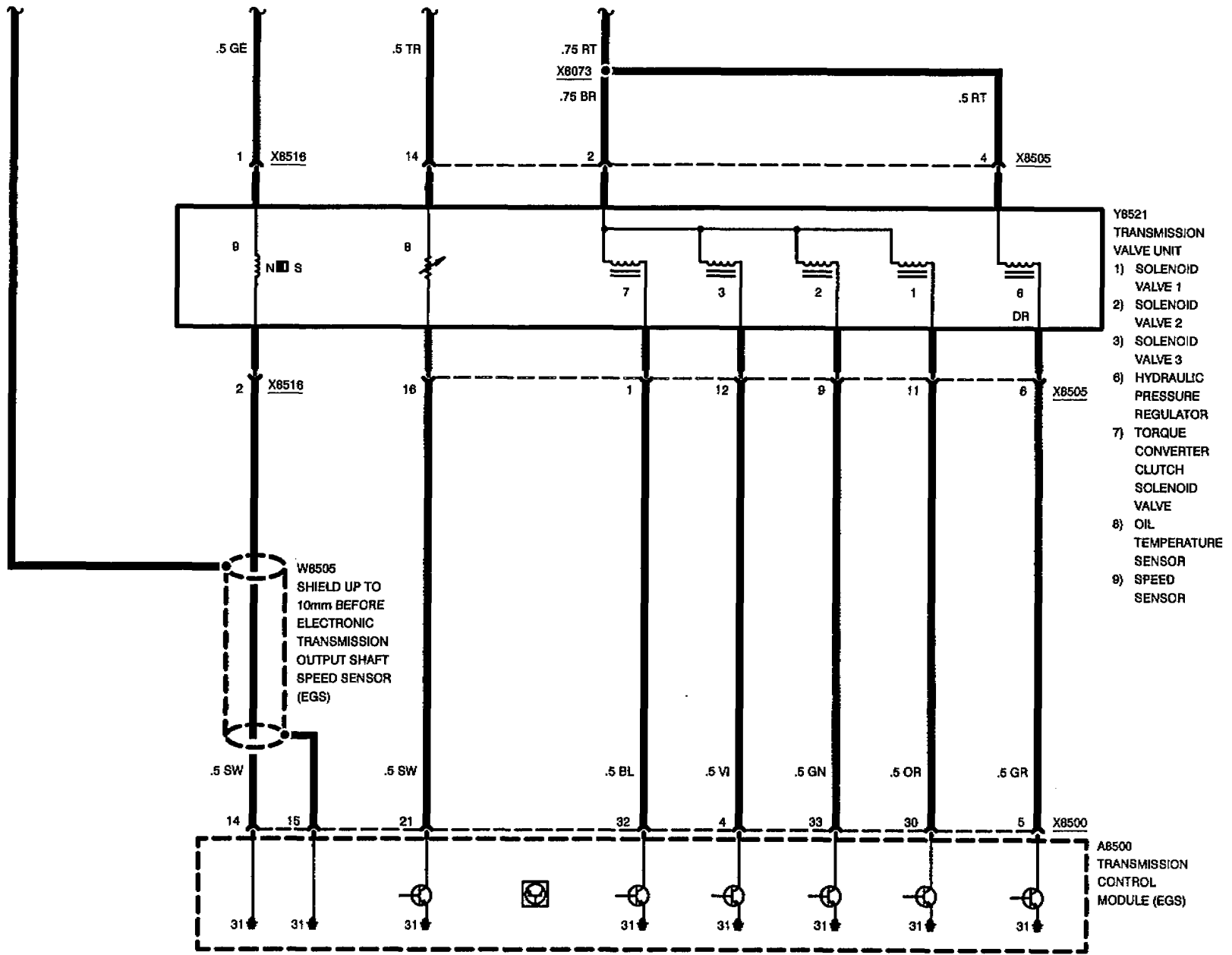


Z3

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

6-CYLINDER





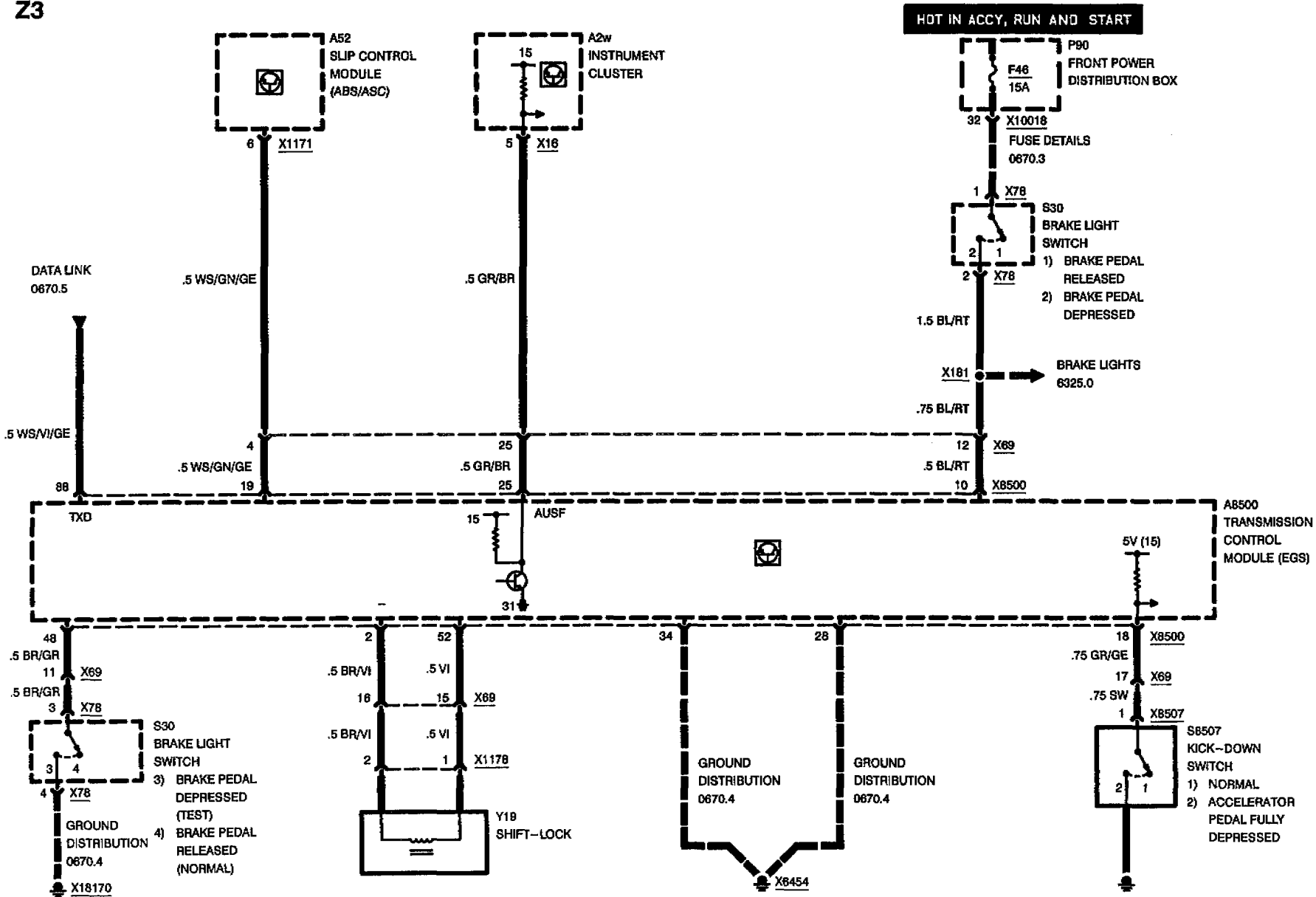


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

6-CYLINDER

SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH

Z3



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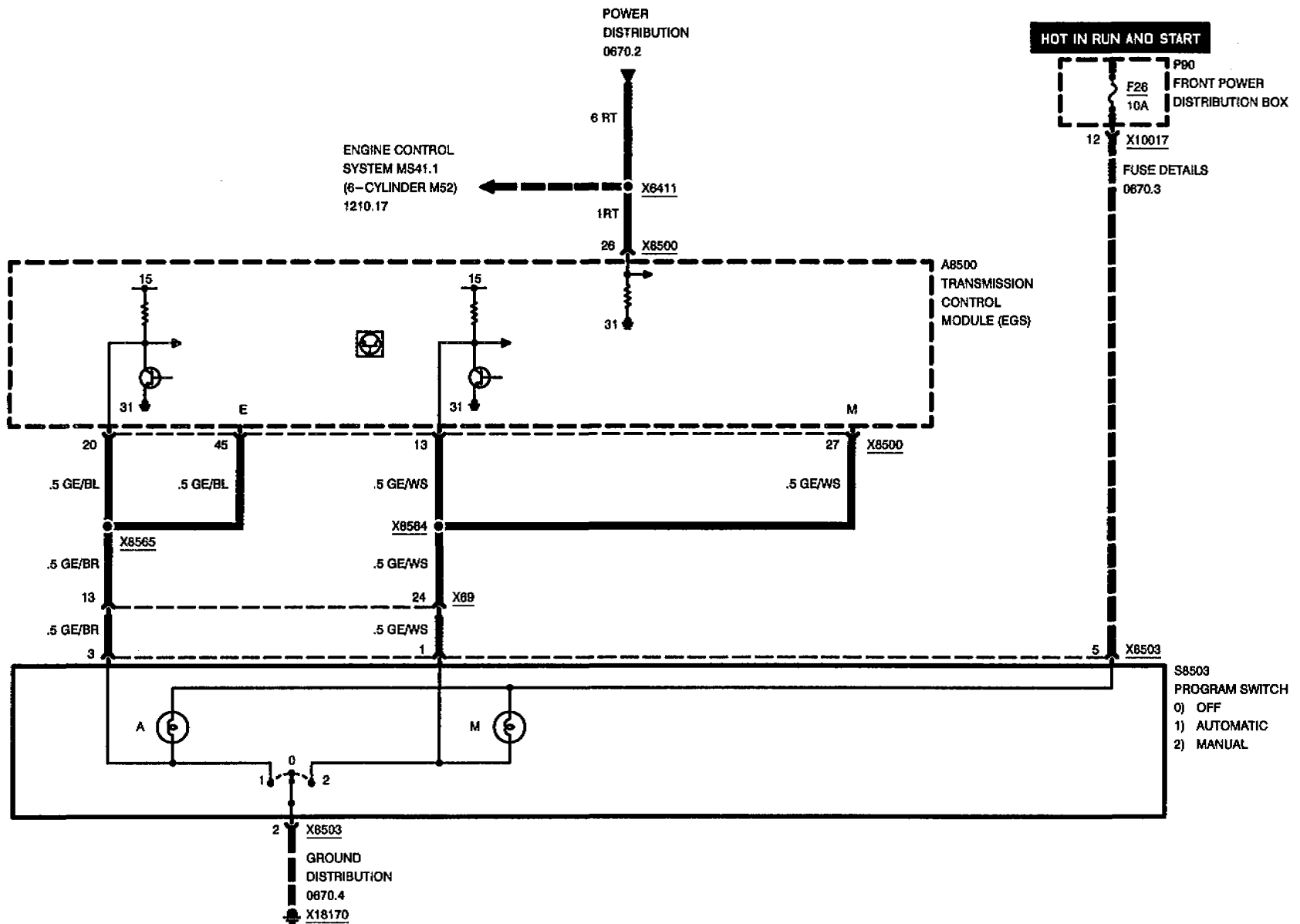
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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

6-CYLINDER



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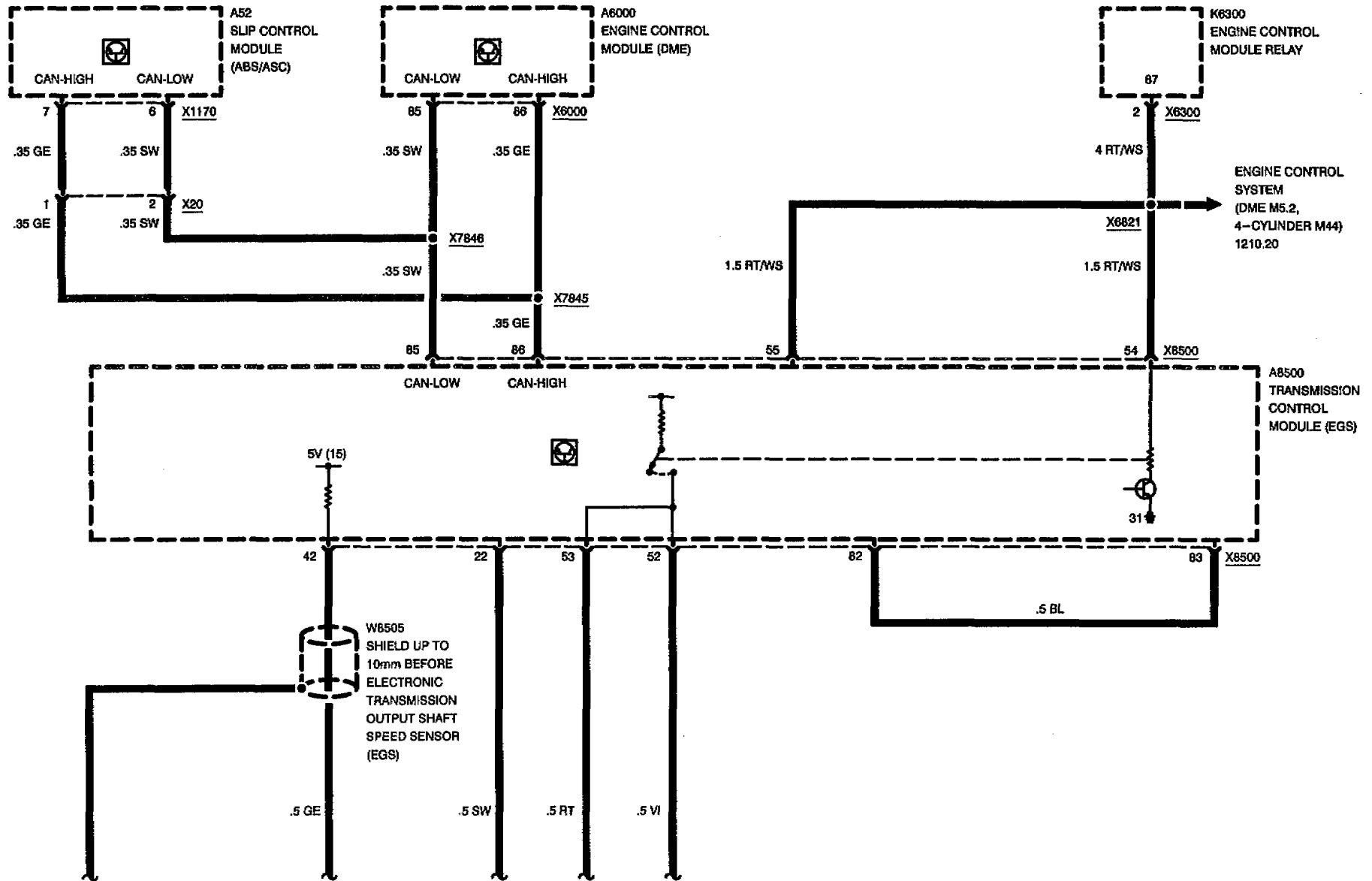
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Z3

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

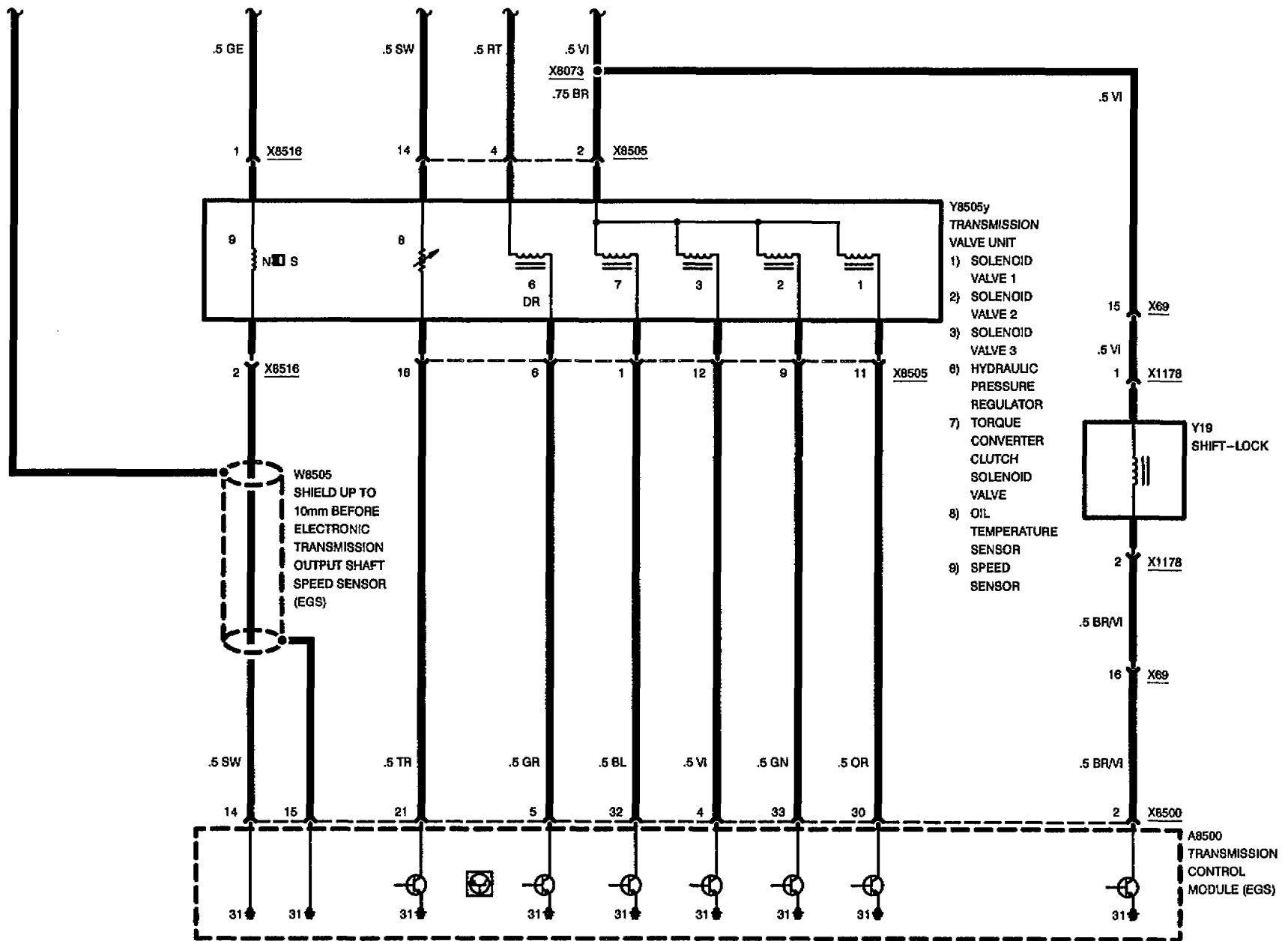
4-CYLINDER

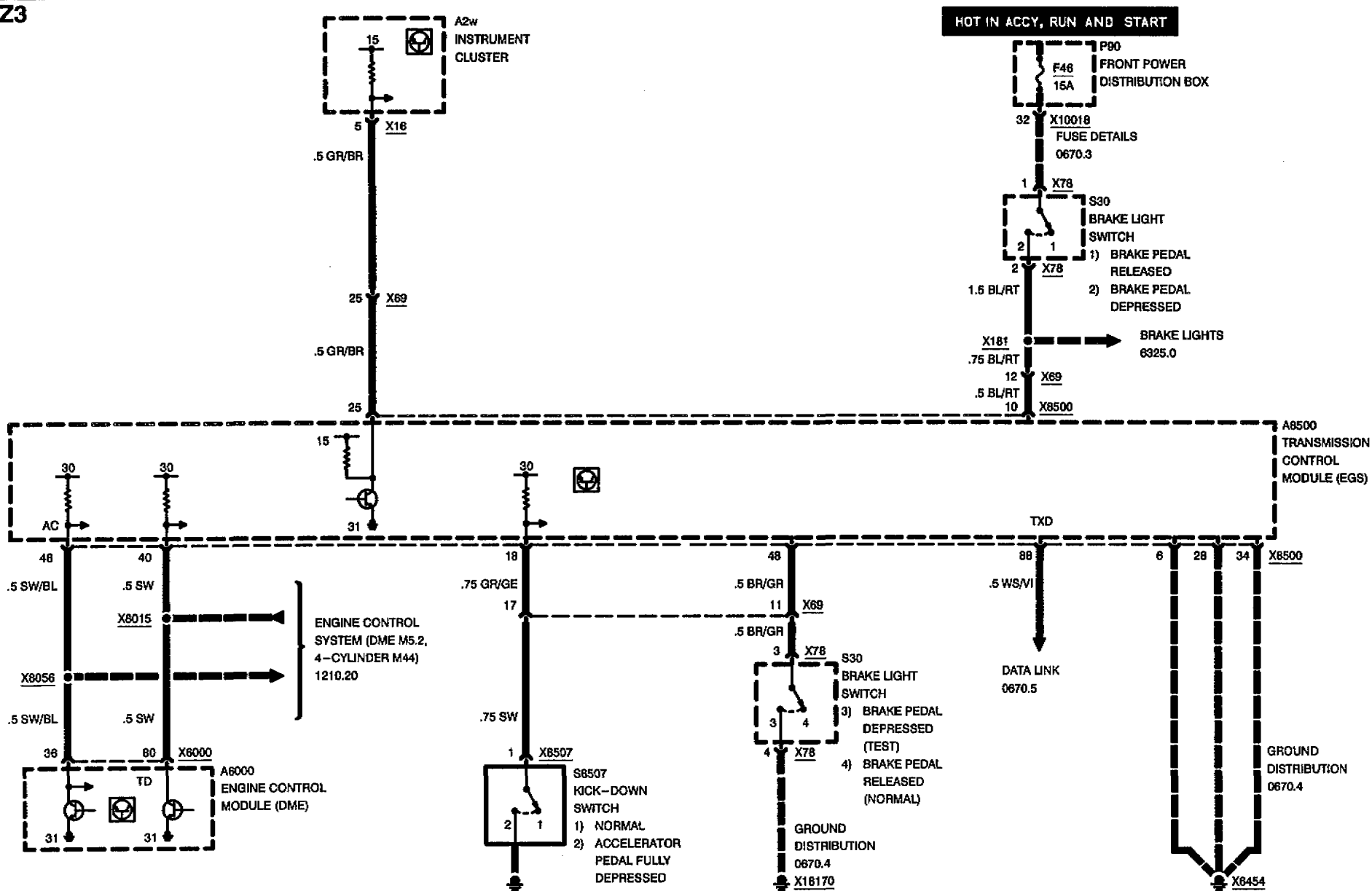


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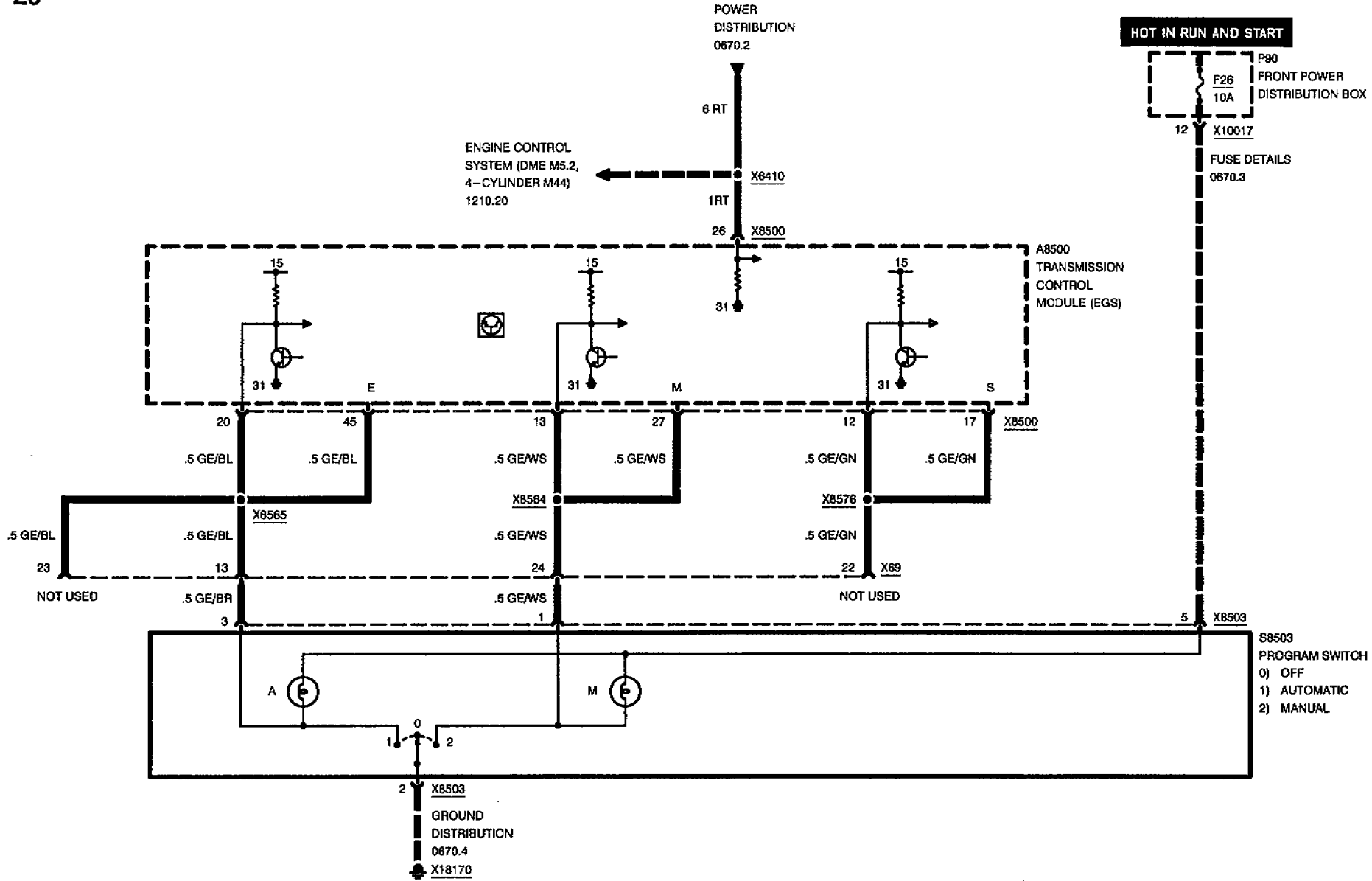






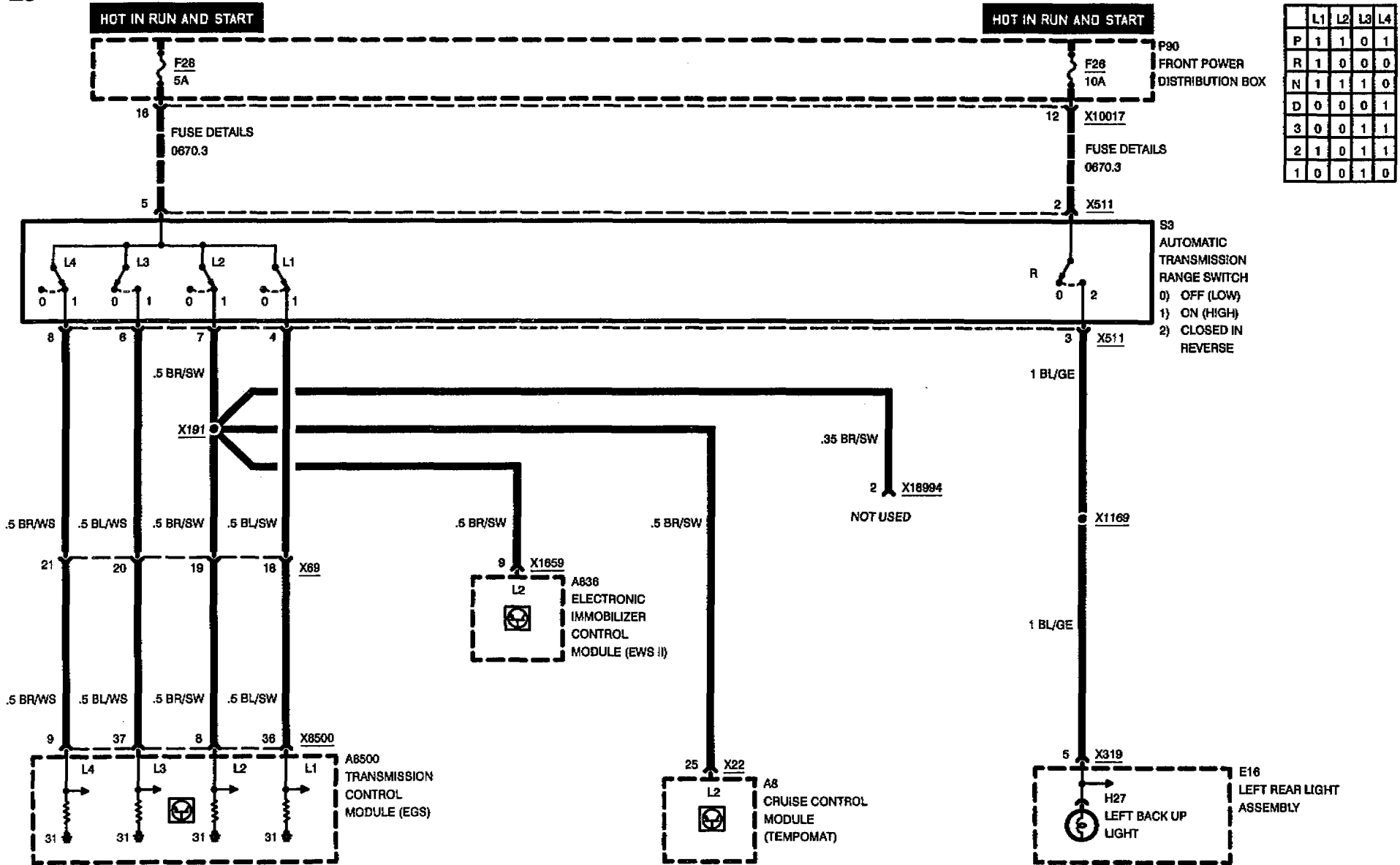
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

4-CYLINDER



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

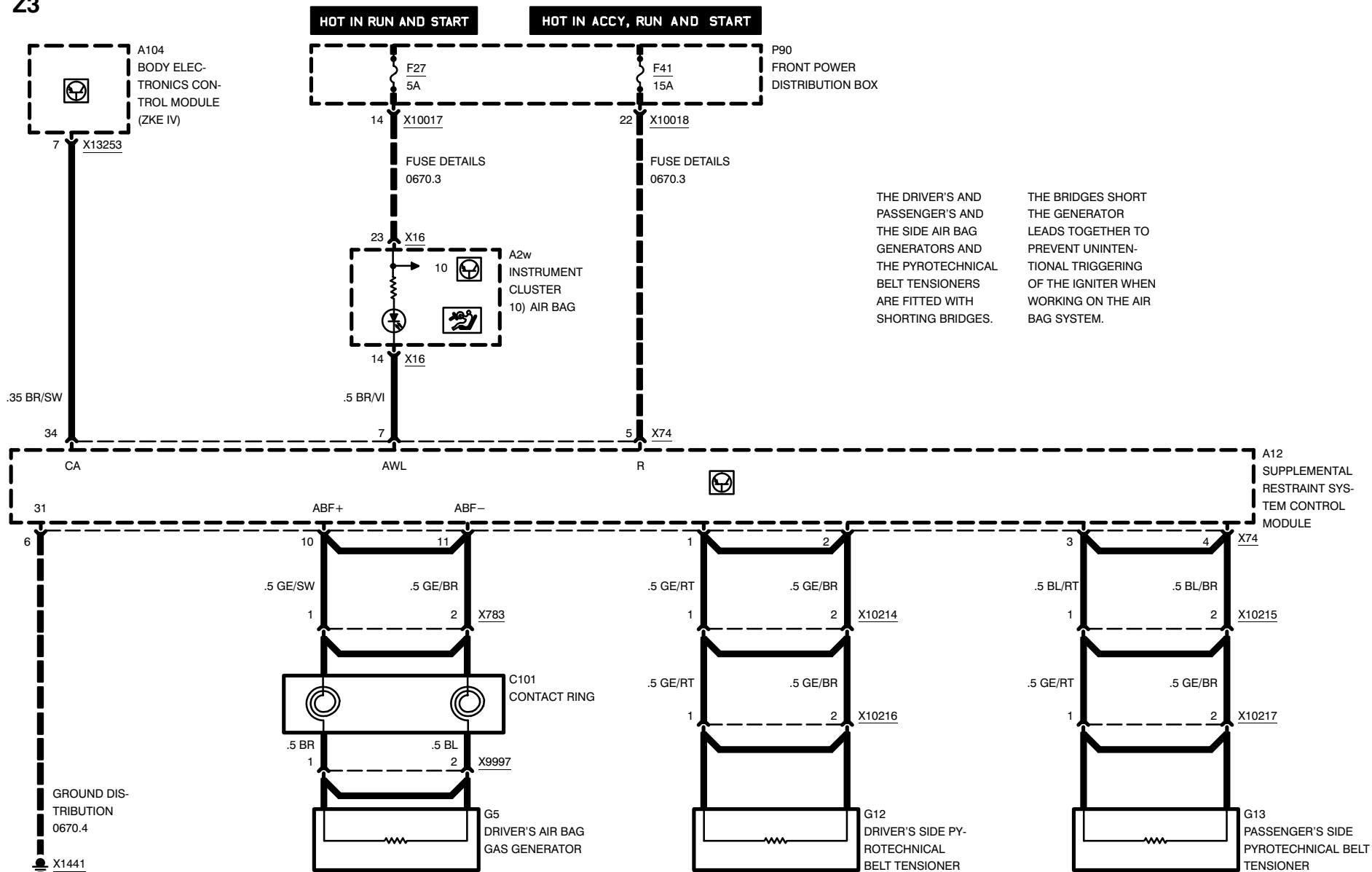


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0



Z3

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



03/98

3234.0-00

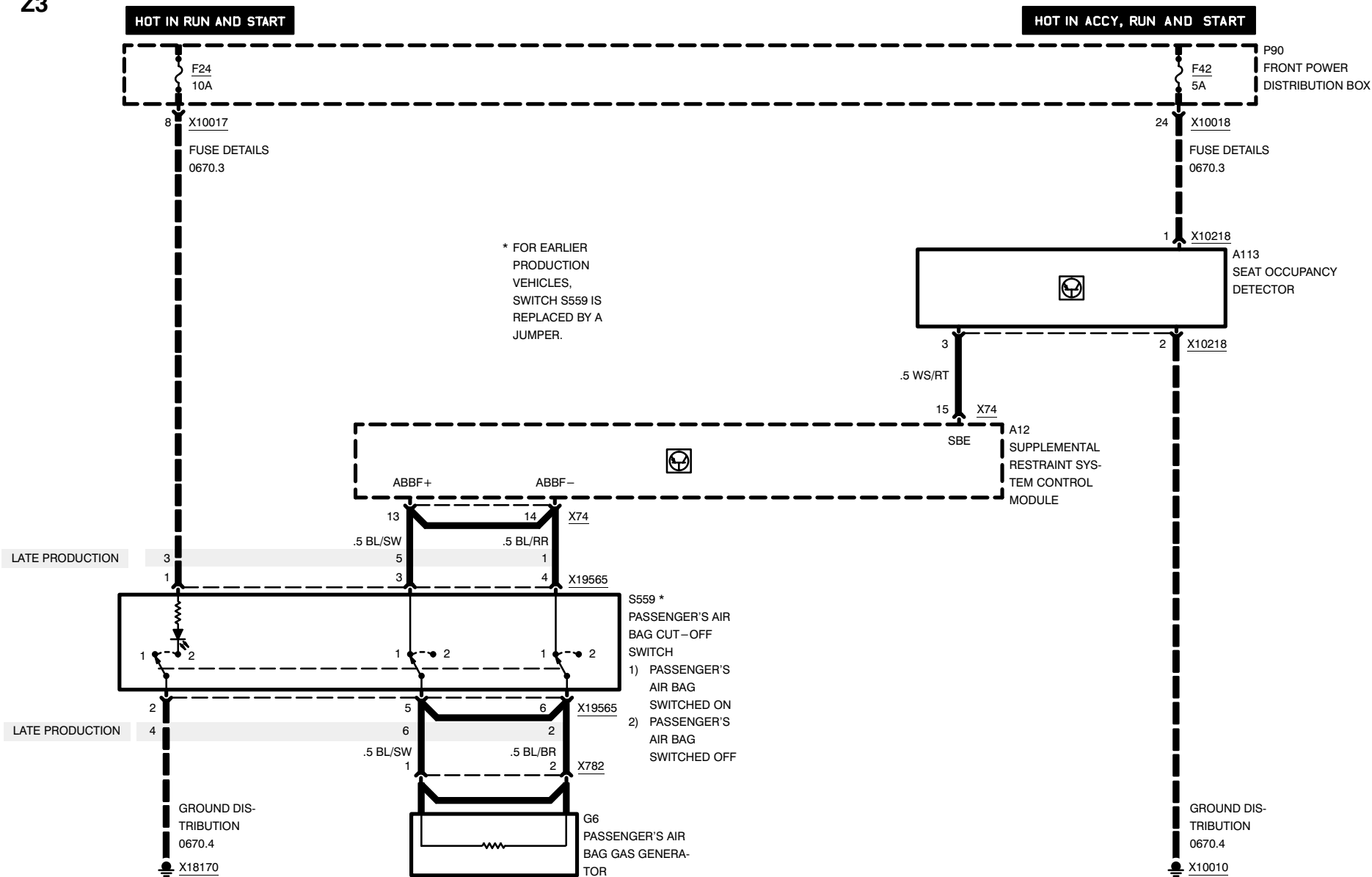
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

03/98

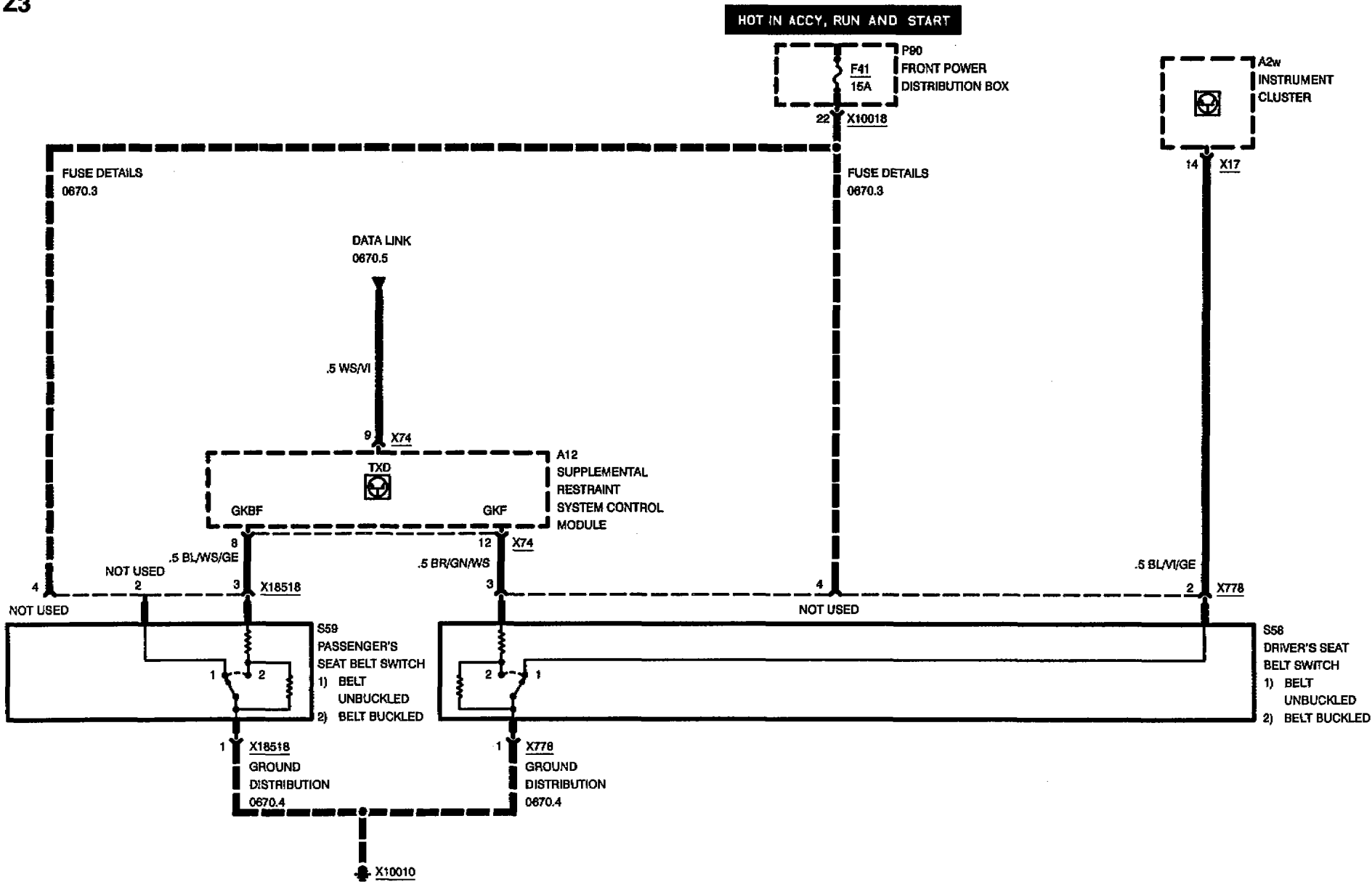
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

Z3



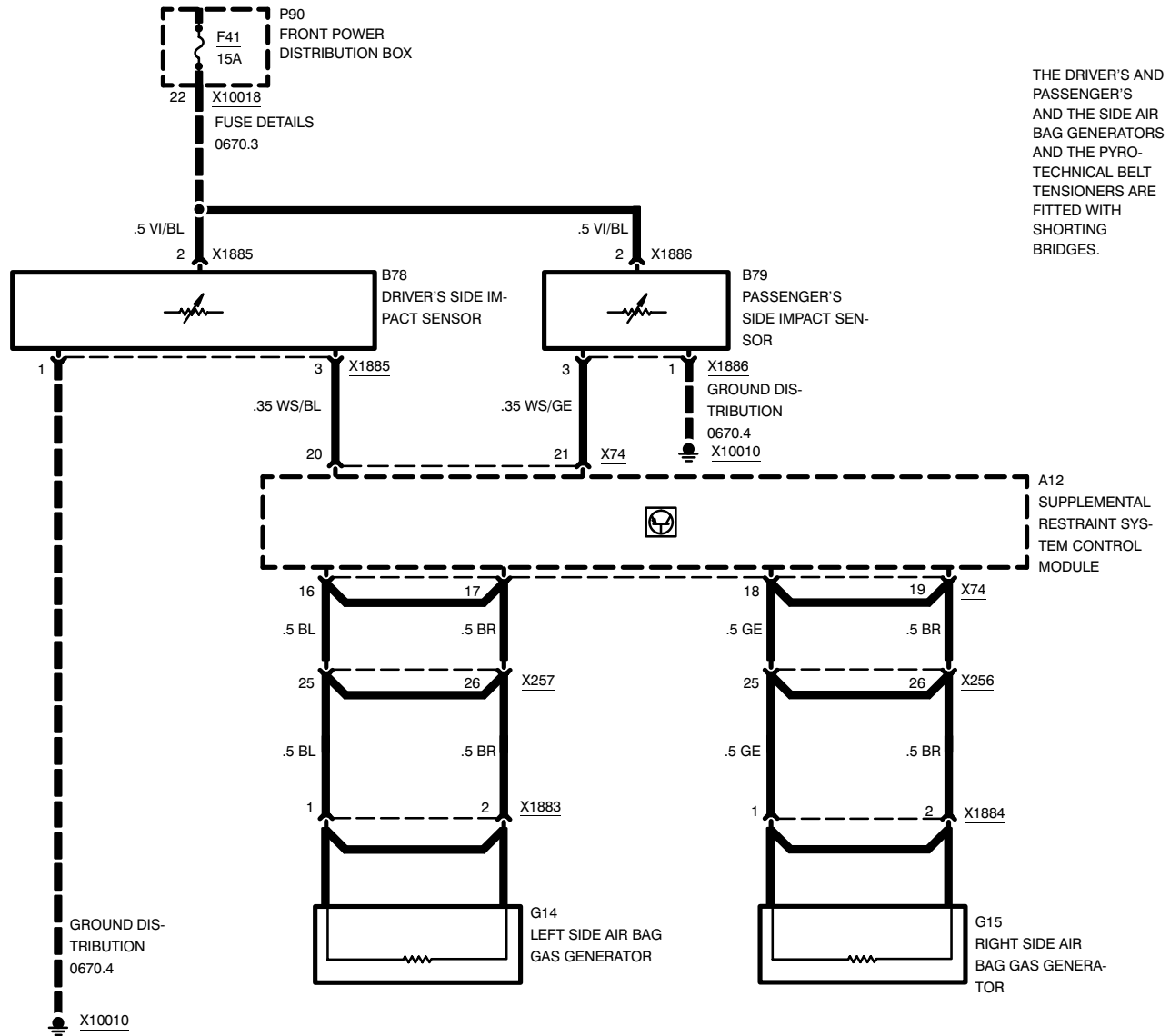


SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

LATE PRODUCTION

SIDE AIR BAG

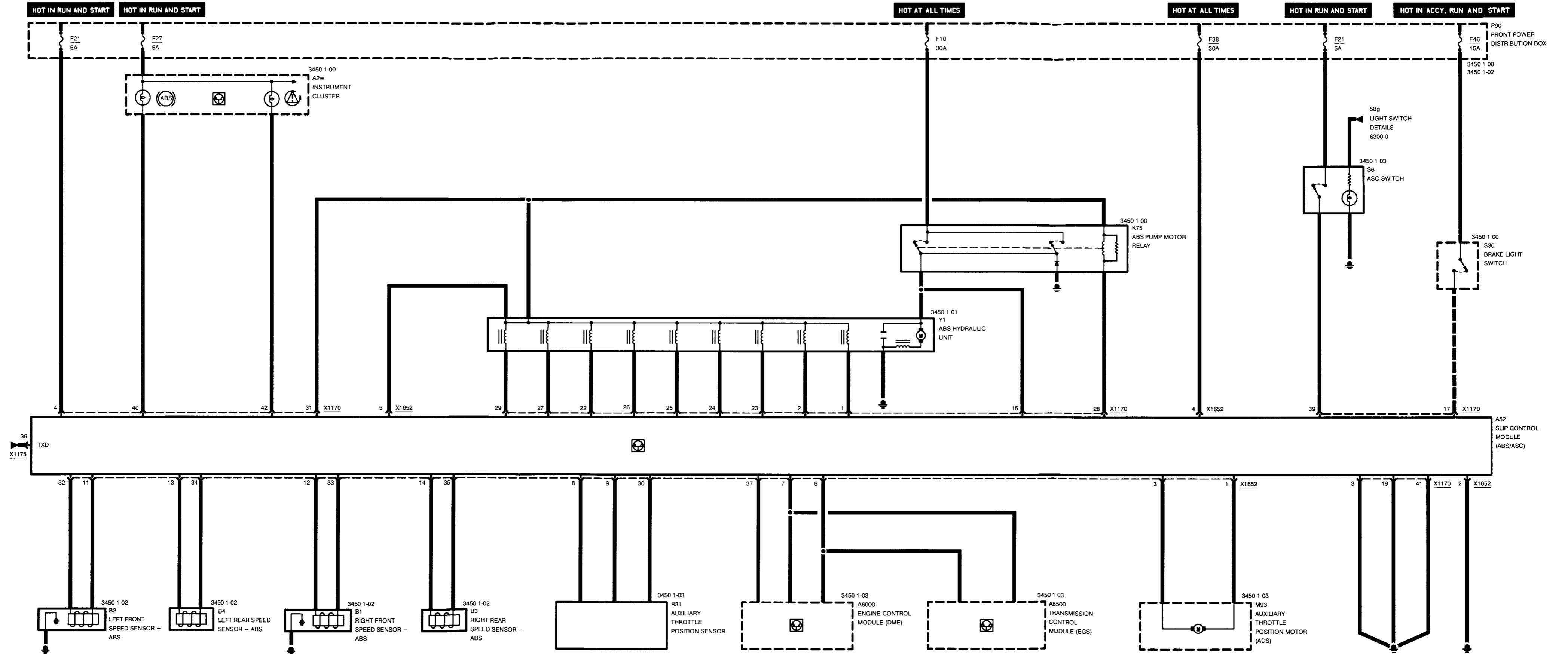
HOT IN ACCY, RUN AND START



THE DRIVER'S AND PASSENGER'S AND THE SIDE AIR BAG GENERATORS AND THE PYROTECHNICAL BELT TENSIONERS ARE FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

4-CYLINDER





Z3

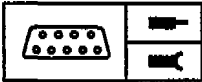
**Pin Assignments****4-Cylinder****X1170**

Pin	Type	Description/Function	Connection
1	A	Left front inlet valve	ABS hydraulic unit
2	A	Left front outlet valve	ABS hydraulic unit
3	M	Ground	Ground point
4	E	Voltage supply	Fuse 21
5		Not used	
6	E/A	CAN LOW	DME/EGS module
7	E/A	CAN HIGH	DME/EGS module
8	E	Throttle position signal 1	Auxiliary throttle position sensor
9	E	Throttle position signal 3	Auxiliary throttle position sensor
10		Not used	
11	A	Sensor ground	Left front speed sensor ABS
12	A	Sensor ground	Right front speed sensor ABS
13	A	Sensor ground	Left rear speed sensor ABS
14	A	Sensor ground	Right rear speed sensor ABS
15	E	Signal pump motor	ABS pump motor relay
16		Not used	
17	E	Brake pedal position	Brake light switch
18		Not used	
19	M	Ground	Ground point
20		Not used	
21		Not used	
22	A	Right rear outlet valve	ABS hydraulic unit
23	A	Right front inlet valve	ABS hydraulic unit
24	A	Right front outlet valve	ABS hydraulic unit
25	A	Left rear outlet valve	ABS hydraulic unit
26	A	Left rear inlet valve	ABS hydraulic unit
27	A	Right rear inlet valve	ABS hydraulic unit
28	A	Activate relay	ABS pump motor relay
29	A	Separator valve	ABS hydraulic unit
30	E	Throttle position signal 2	Auxiliary throttle position sensor

E = Input, A = Output, M = Ground



Z3

**Pin Assignments****4-Cylinder**

Pin	Type	Description/Function	Connection
31	A	Signal ABS	ABS pump motor relay/Hydraulic unit
32	E	Speed signal	Left front speed sensor ABS
33	E	Speed signal	Right front speed sensor ABS
34	E	Speed signal	Left rear speed sensor ABS
35	E	Speed signal	Right rear speed sensor ABS
36	E/A	TxD diagnostic data link	Data link connector
37	A	Speed signal right rear	DME module
38		Not used	
39	E	Signal ASC	ASC switch
40	A	ABS signal	Instrument cluster
41	M	Ground	Ground point
42	A	Signal ASC	Instrument cluster

X1652

Pin	Type	Description/Function	Connection
1	A	ADS step motor (-)	Auxiliary throttle position motor
2	M	Ground	Ground point
3	A	ADS step motor (+)	Auxiliary throttle position motor
4	E	Voltage supply	Fuse 38
5	A	ABS signal	ABS hydraulic unit

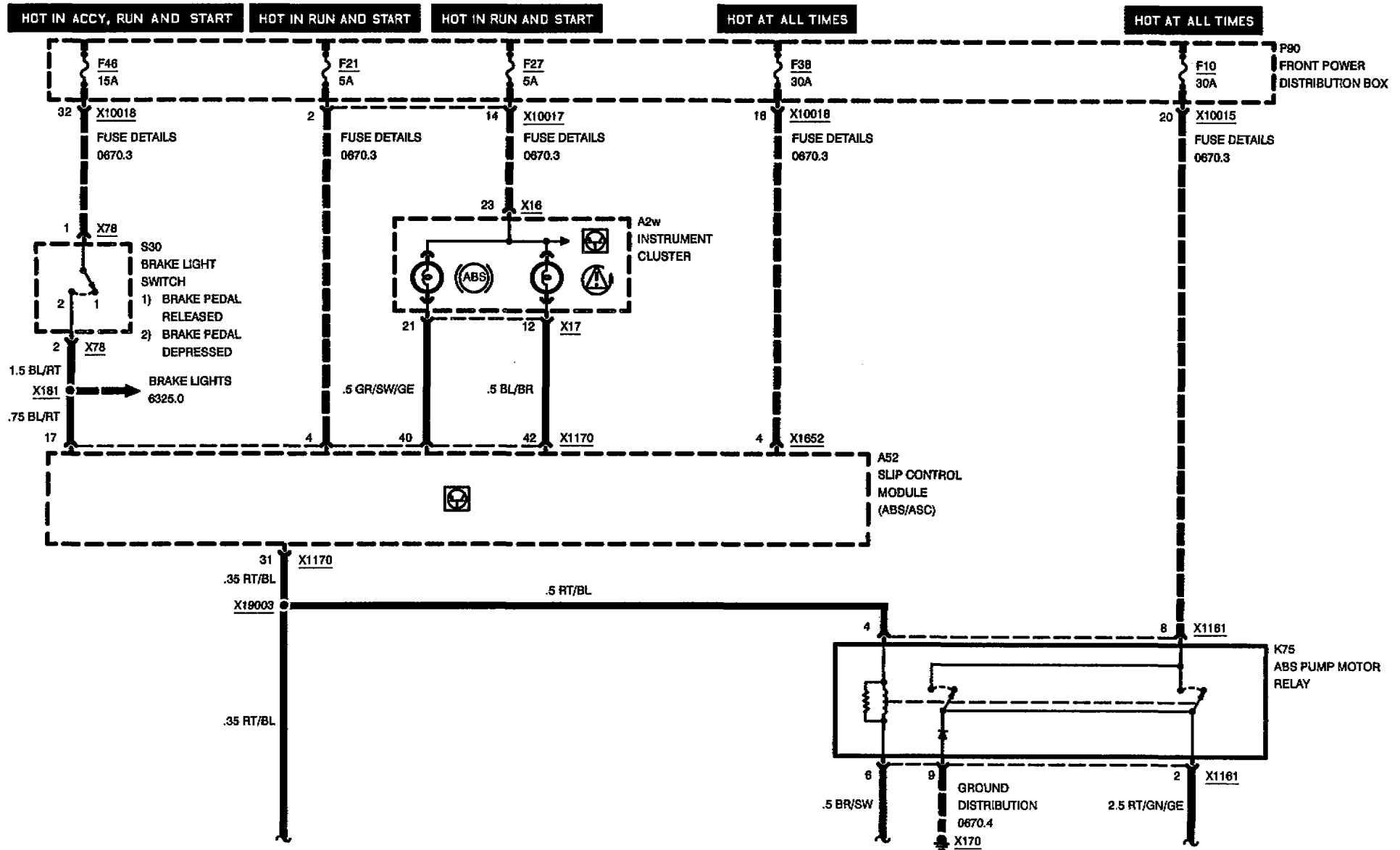
E = Input, A = Output, M = Ground



SLIP CONTROL (ABS/ASC)

4-CYLINDER

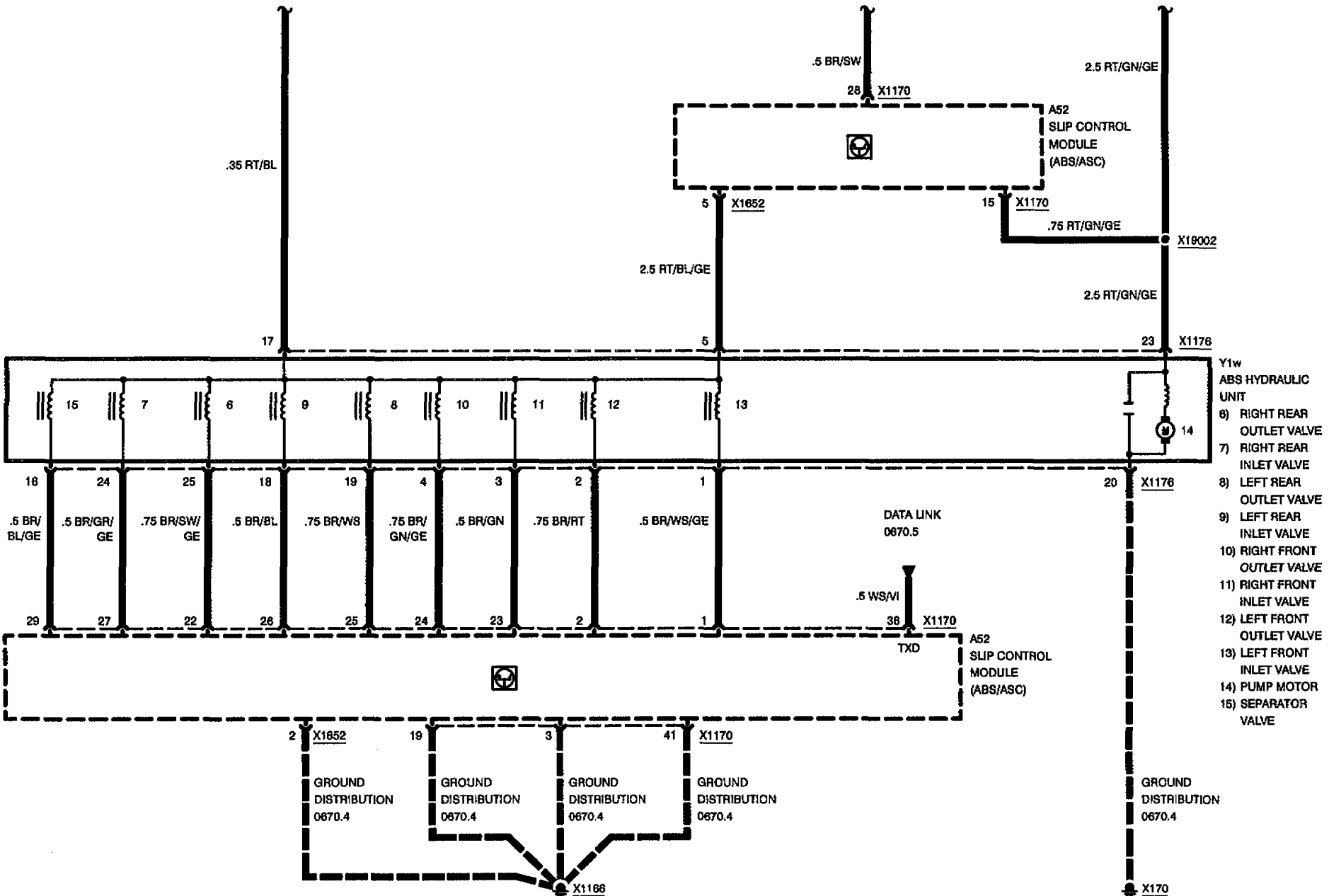
Z3



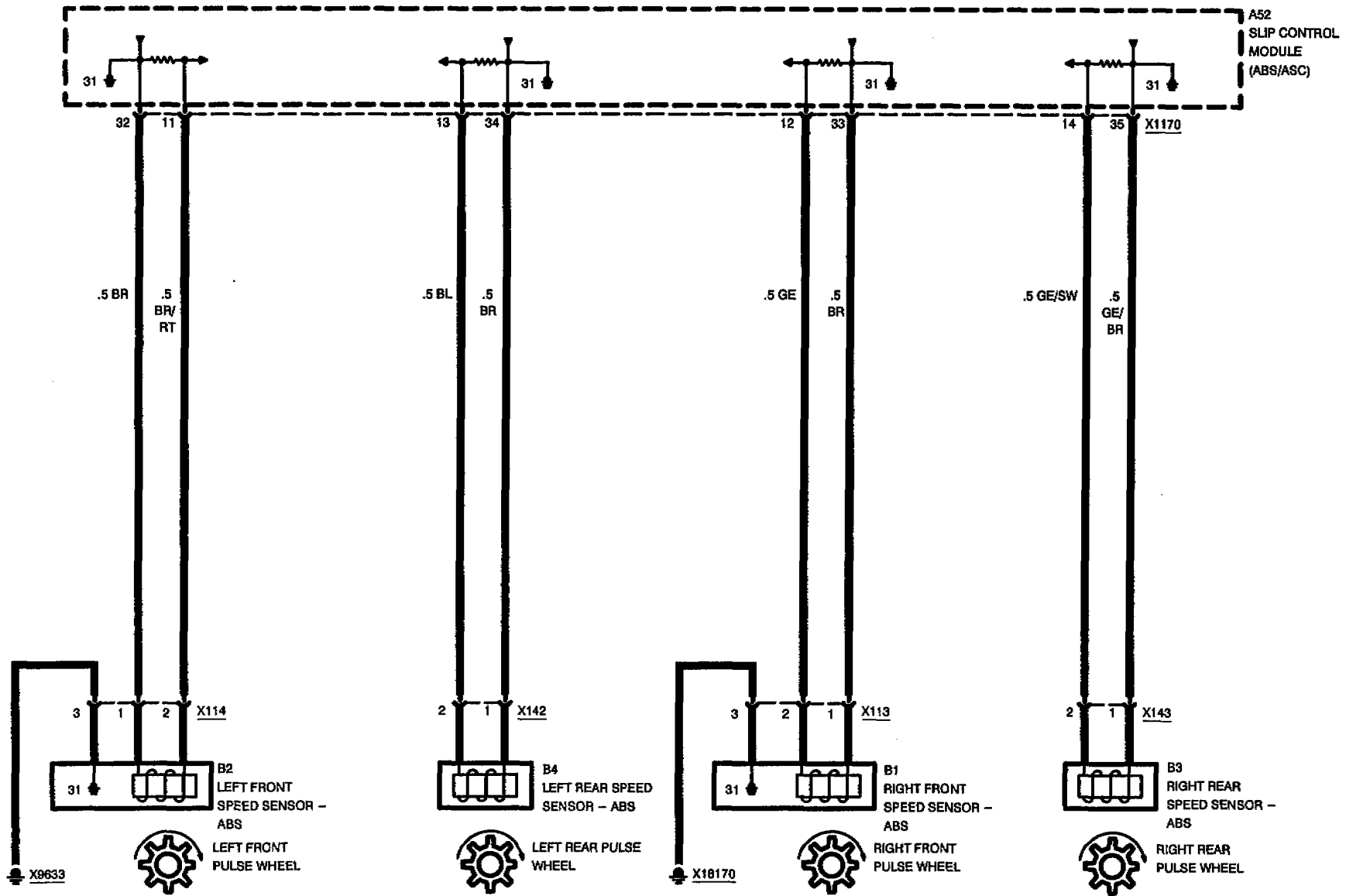
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1998



- Y1w
ABS HYDRAULIC UNIT
- 6) RIGHT REAR OUTLET VALVE
 - 7) RIGHT REAR INLET VALVE
 - 8) LEFT REAR OUTLET VALVE
 - 9) LEFT REAR INLET VALVE
 - 10) RIGHT FRONT OUTLET VALVE
 - 11) RIGHT FRONT INLET VALVE
 - 12) LEFT FRONT OUTLET VALVE
 - 13) LEFT FRONT INLET VALVE
 - 14) PUMP MOTOR
 - 15) SEPARATOR VALVE

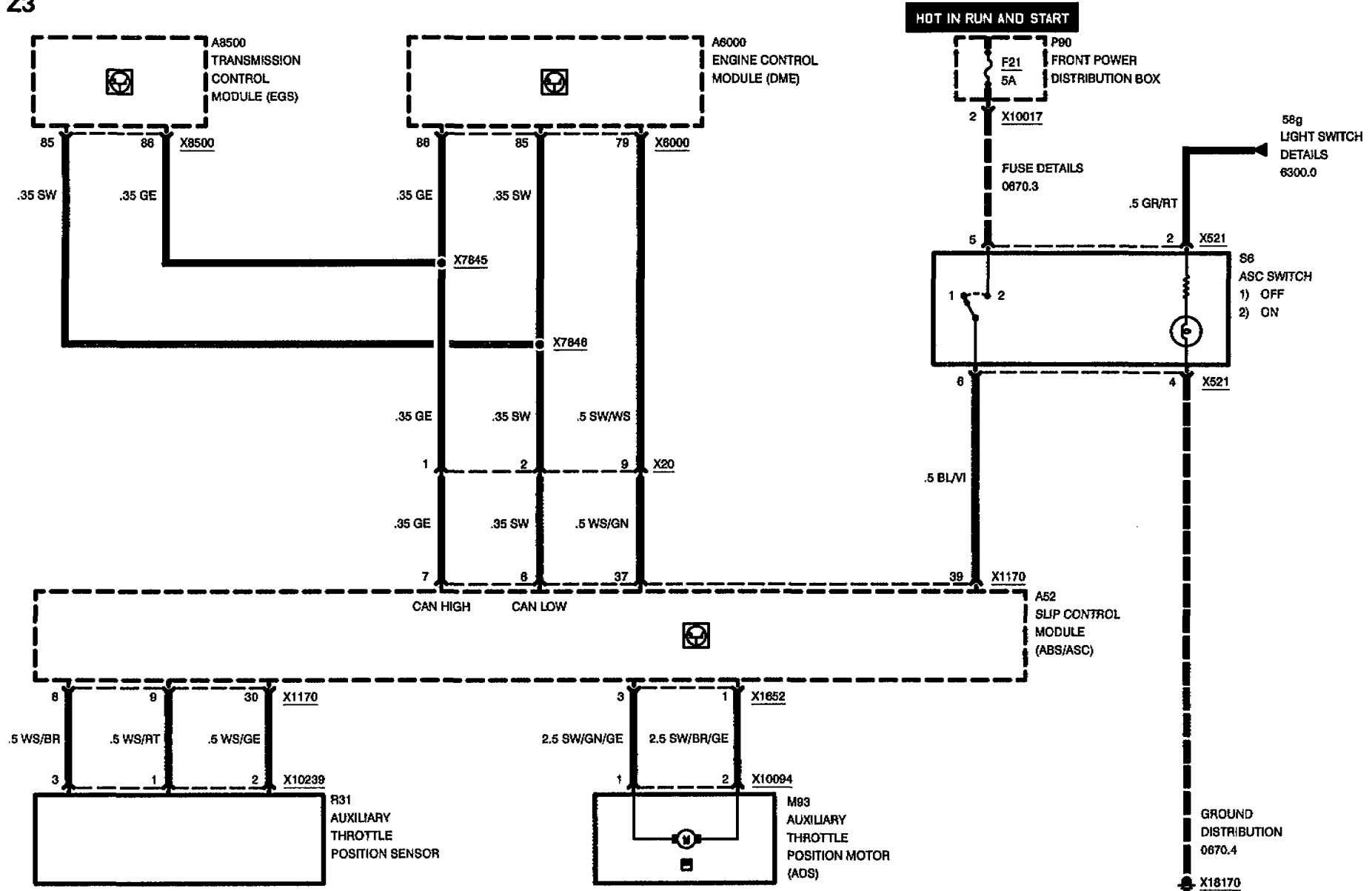




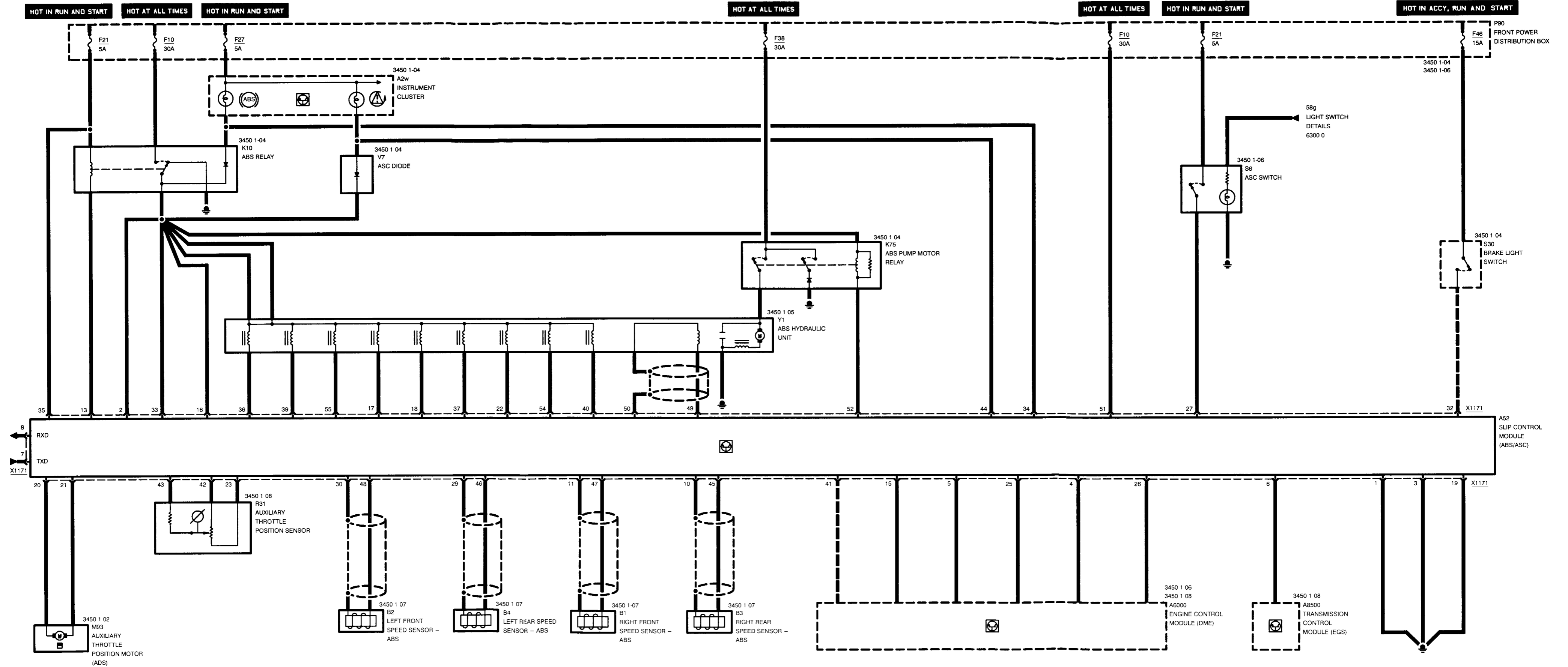
SLIP CONTROL (ABS/ASC)

4-CYLINDER

Z3

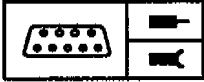


6-CYLINDER





Z3

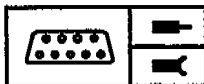
**Pin Assignments****6-Cylinder****X1171**

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Ignition cut-off signal	DME module
5	A	EML signal	DME module
6	A	Transmission influence	Transmission control module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor ground	ABS speed sensor rear right
11	A	Sensor ground	ABS speed sensor front right
12		Not used	
13	A	ABS power protection relay	ABS power protection relay
14		Not used	
15	A	Right rear speed signal	DME module
16	E	Current	ABS relay
17	A	Solenoid valve signal left rear	ABS hydraulic unit
18	A	Solenoid valve signal left rear	ABS hydraulic unit
19	M	Ground	Ground
20	A	ADS step Motor (-)	ADS step motor
21	A	ADS step Motor (+)	ADS step motor
22	A	Solenoid valve signal right front	ABS hydraulic unit
23	E	ASC throttle flap potentiometer (-)	ASC throttle flap motor potentiometer
24		Not used	
25	E	Signal idle speed	DME module
26	A	Throttle flap position	DME module
27	E	ASC switch signal	ASC switch
28		Not used	
29	A	Sensor ground	ABS speed sensor rear left
30	A	Sensor ground	ABS speed sensor front left

E = Input, A = Output, M = Ground



Z3

**Pin Assignments****6-Cylinder**

Pin	Type	Description/Function	Connection
31		Not used	
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS protection relay
34	A	ABS lamp control	Instrument cluster
35	E	Ignition signal	Fuse 21
36	A	Solenoid valve	ABS hydraulic unit
37	A	Solenoid valve signal right front	ABS hydraulic unit
38		Not used	
39	A	Solenoid valve signal right rear	ABS hydraulic unit
40	A	Solenoid valve signal left front	ABS hydraulic unit
41	E	Speed signal	DME module
42	E	ASC throttle flap potentiometer (+)	ASC throttle flap potentiometer
43	E	ASC throttle flap signal	ASC throttle flap potentiometer
44	A	ASC lamp control	Instrument cluster
45	E	Speed sensor signal rear right	Speed sensor rear right
46	E	Speed sensor signal rear left	Speed sensor rear left
47	E	Speed sensor signal front right	Speed sensor front right
48	E	Speed sensor signal front left	Speed sensor front left
49	E	Pump motor sensor signal	ABS hydraulic unit
50	E	Shield pump motor sensor	ABS hydraulic unit
51	E	Plus supply	Front power distribution box, fuse 10
52	A	ABS pump motor relay	ABS pump motor relay
53		Not used	
54	A	Solenoid valve signal left front	ABS hydraulic unit
55	A	Solenoid valve signal left rear	ABS hydraulic unit

E = Input, A = Output, M = Ground

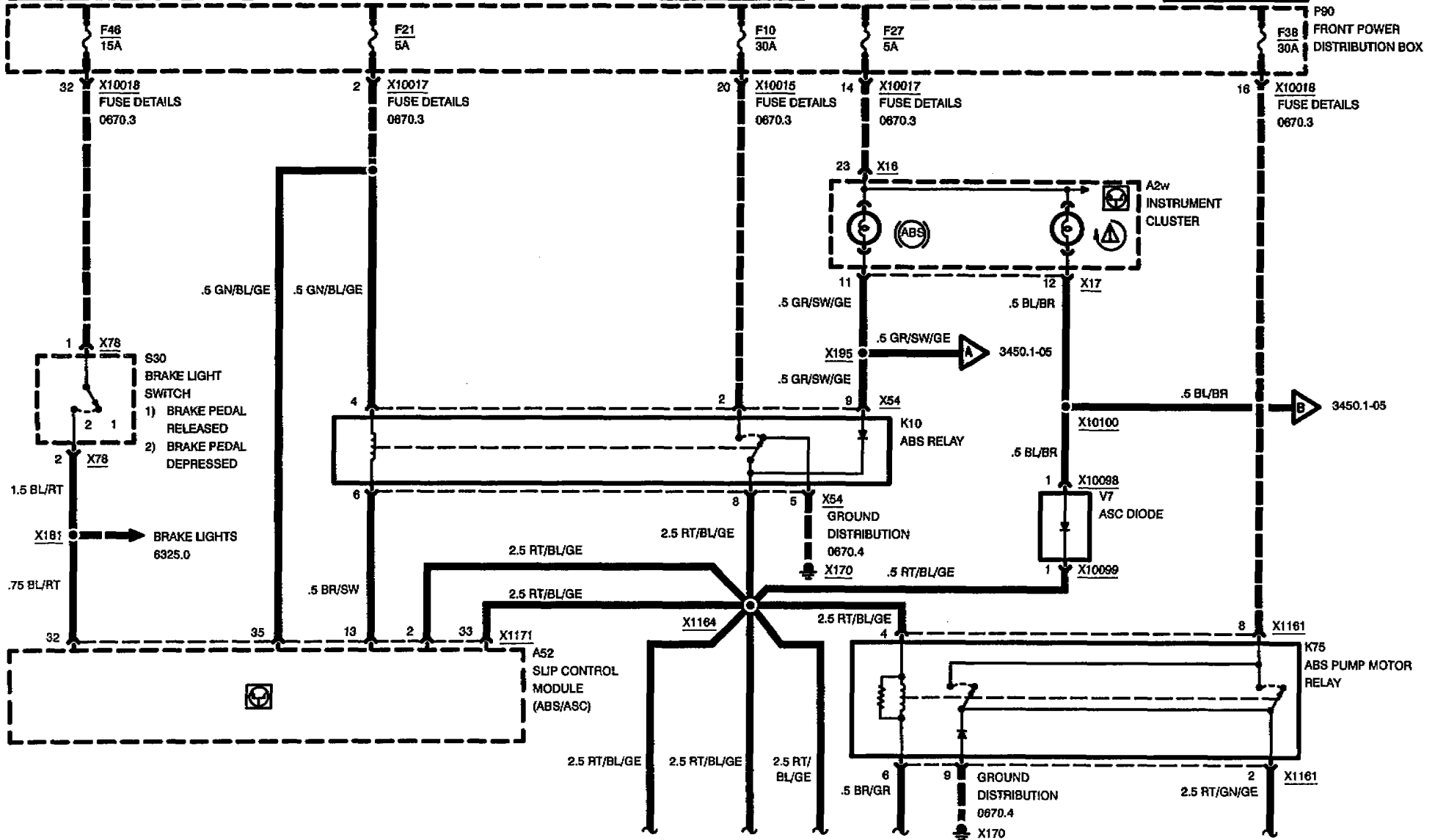
HOT IN ACCY, RUN AND START

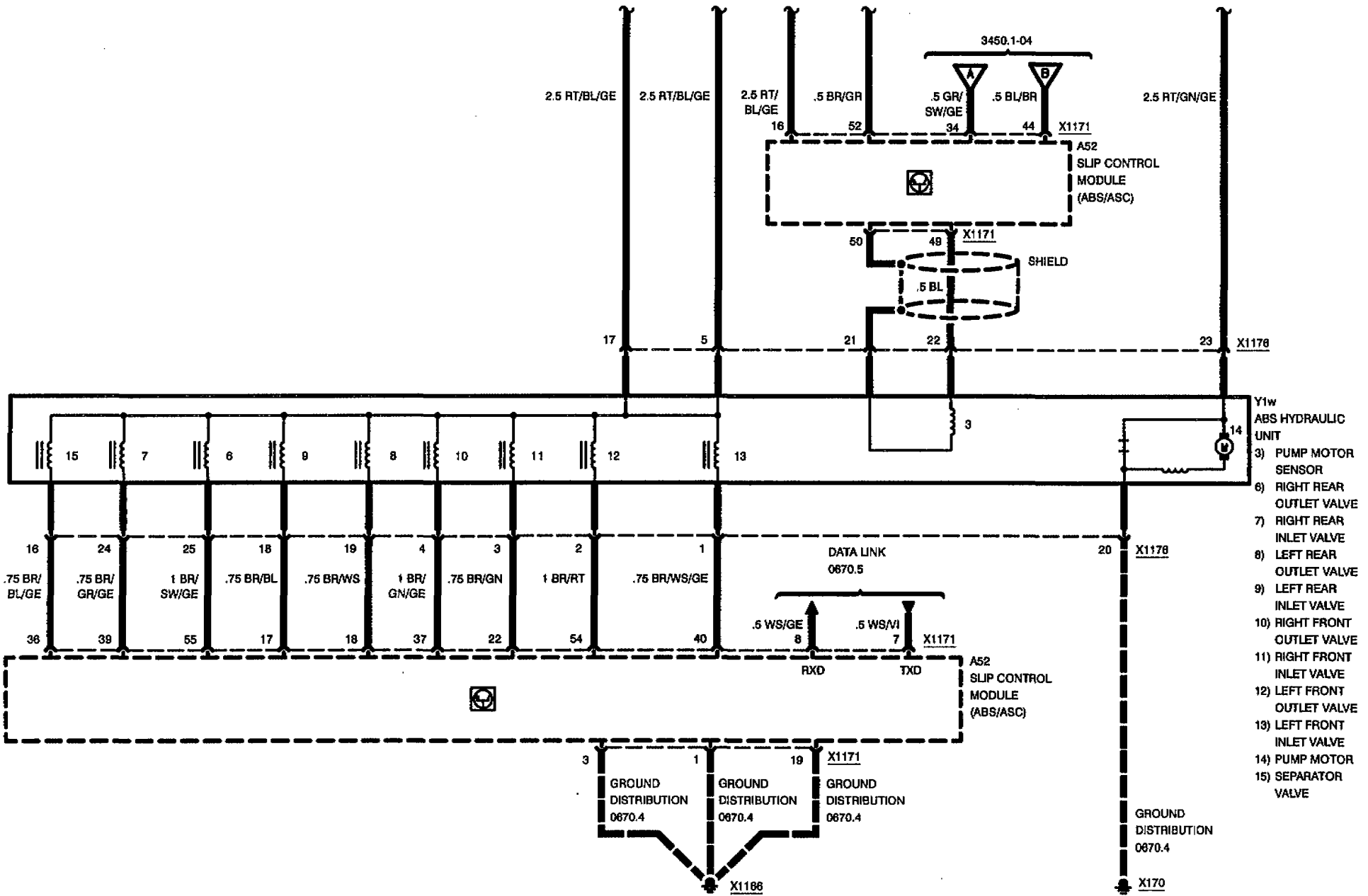
HOT IN RUN AND START

HOT AT ALL TIMES

HOT IN RUN AND START

HOT AT ALL TIMES





2.5 RT/BL/GE

2.5 RT/BL/GE

2.5 RT/BL/GE

.5 BR/GR

.5 GR/SW/GE

.5 BL/BR

2.5 RT/GN/GE

3450.1-04

X1171

A52 SLIP CONTROL MODULE (ABS/ASC)

SHIELD

.5 BL

17

5

21

22

23

X1178

Y1w ABS HYDRAULIC UNIT

- 3) PUMP MOTOR SENSOR
- 6) RIGHT REAR OUTLET VALVE
- 7) RIGHT REAR INLET VALVE
- 8) LEFT REAR OUTLET VALVE
- 9) LEFT REAR INLET VALVE
- 10) RIGHT FRONT OUTLET VALVE
- 11) RIGHT FRONT INLET VALVE
- 12) LEFT FRONT OUTLET VALVE
- 13) LEFT FRONT INLET VALVE
- 14) PUMP MOTOR
- 15) SEPARATOR VALVE

DATA LINK 0870.5

.5 WS/GE

.5 WS/WI

X1171

RXD

TXD

A52 SLIP CONTROL MODULE (ABS/ASC)

GROUND DISTRIBUTION 0870.4

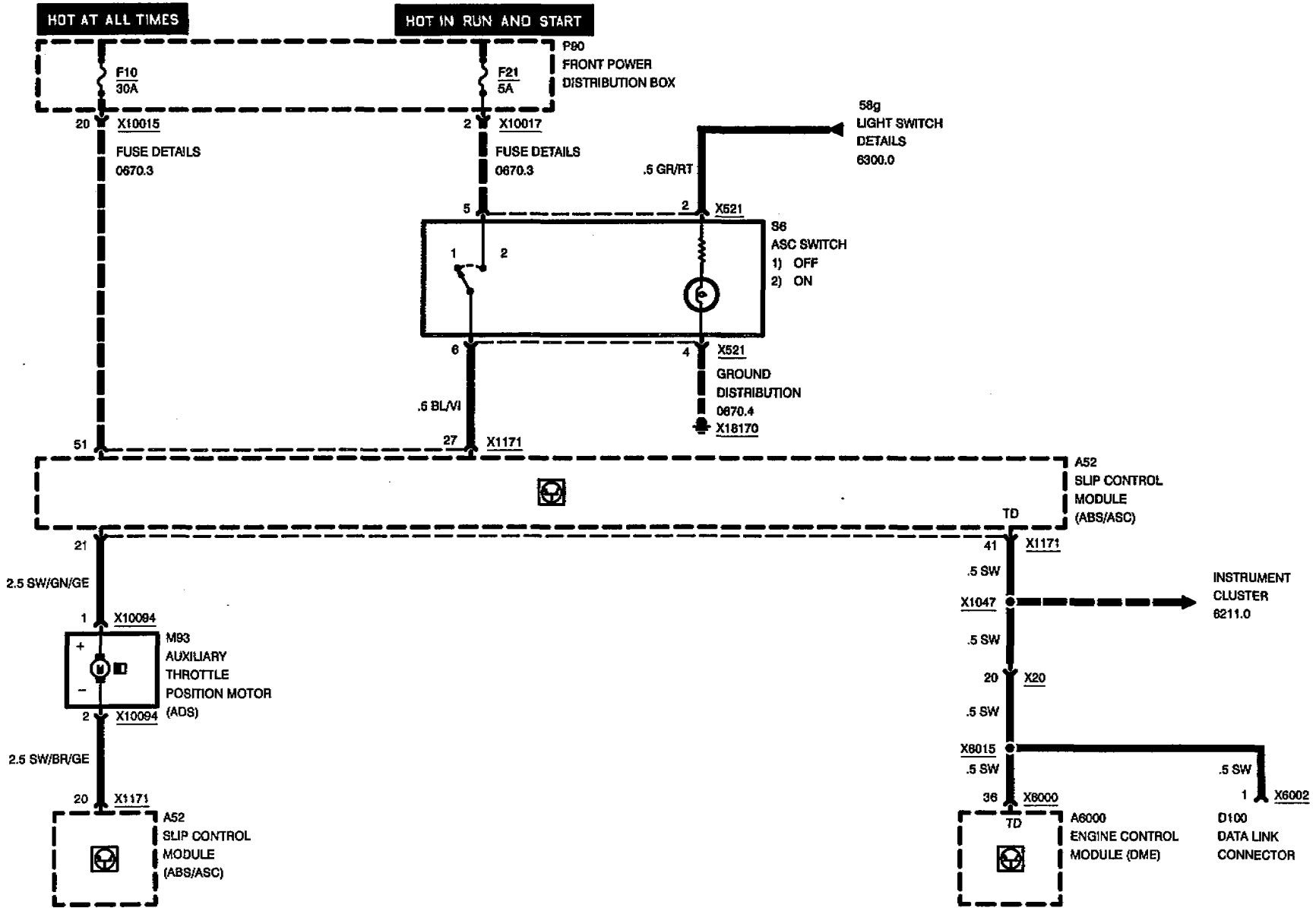
GROUND DISTRIBUTION 0870.4

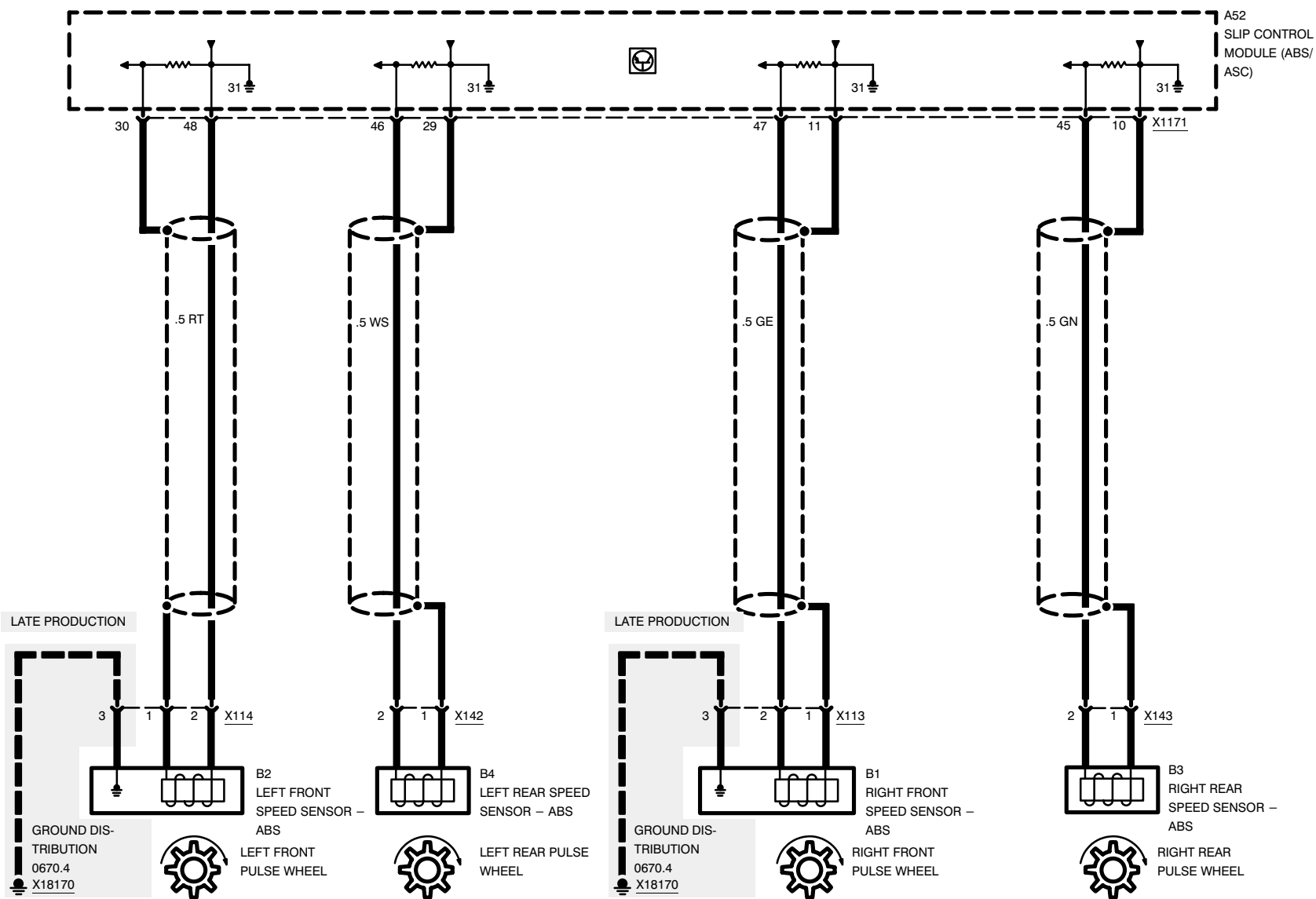
GROUND DISTRIBUTION 0870.4

X1186

GROUND DISTRIBUTION 0870.4

X170



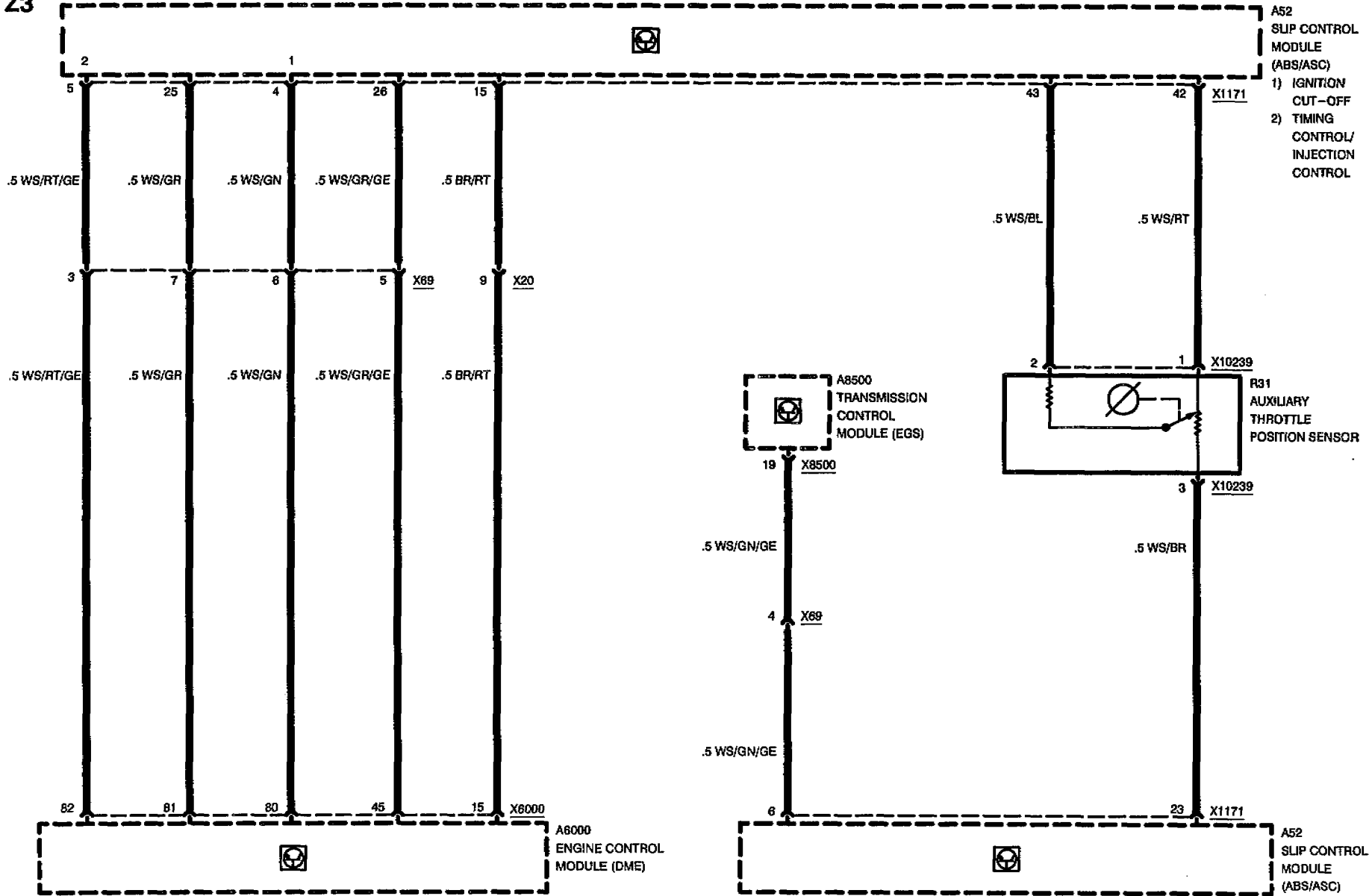




SLIP CONTROL (ABS/ASC)

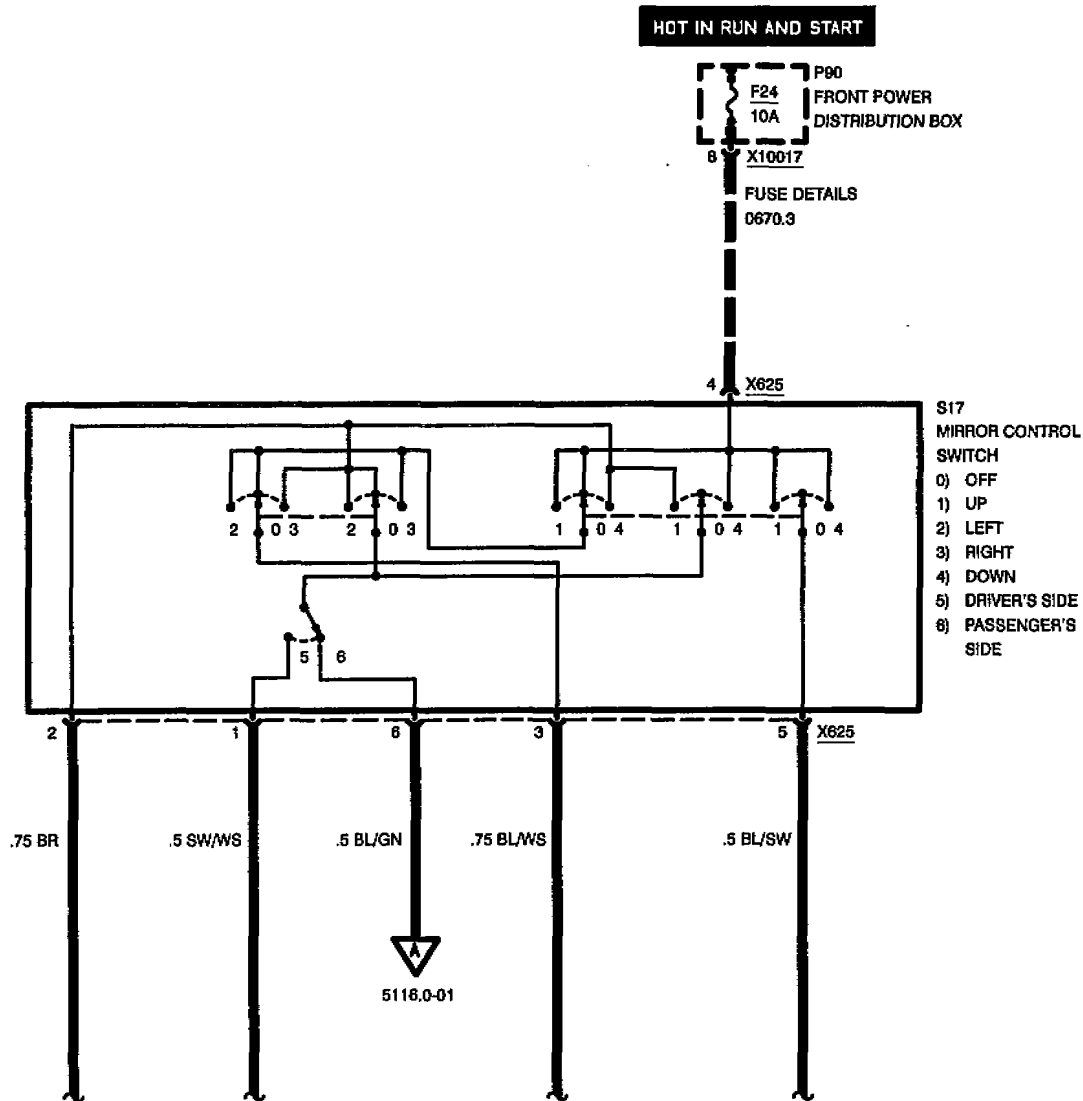
6-CYLINDER

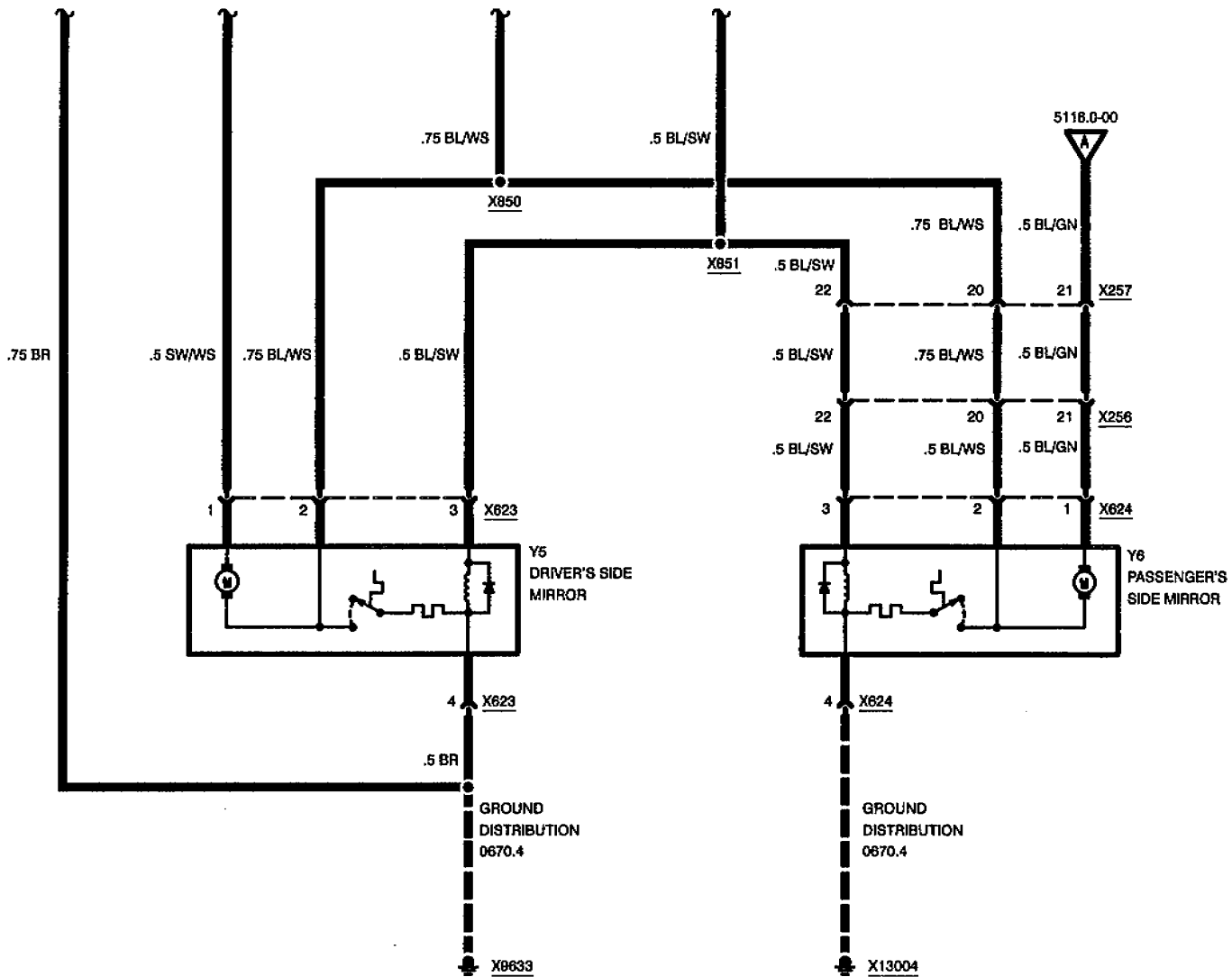
Z3



POWER MIRRORS

OUTSIDE MIRROR



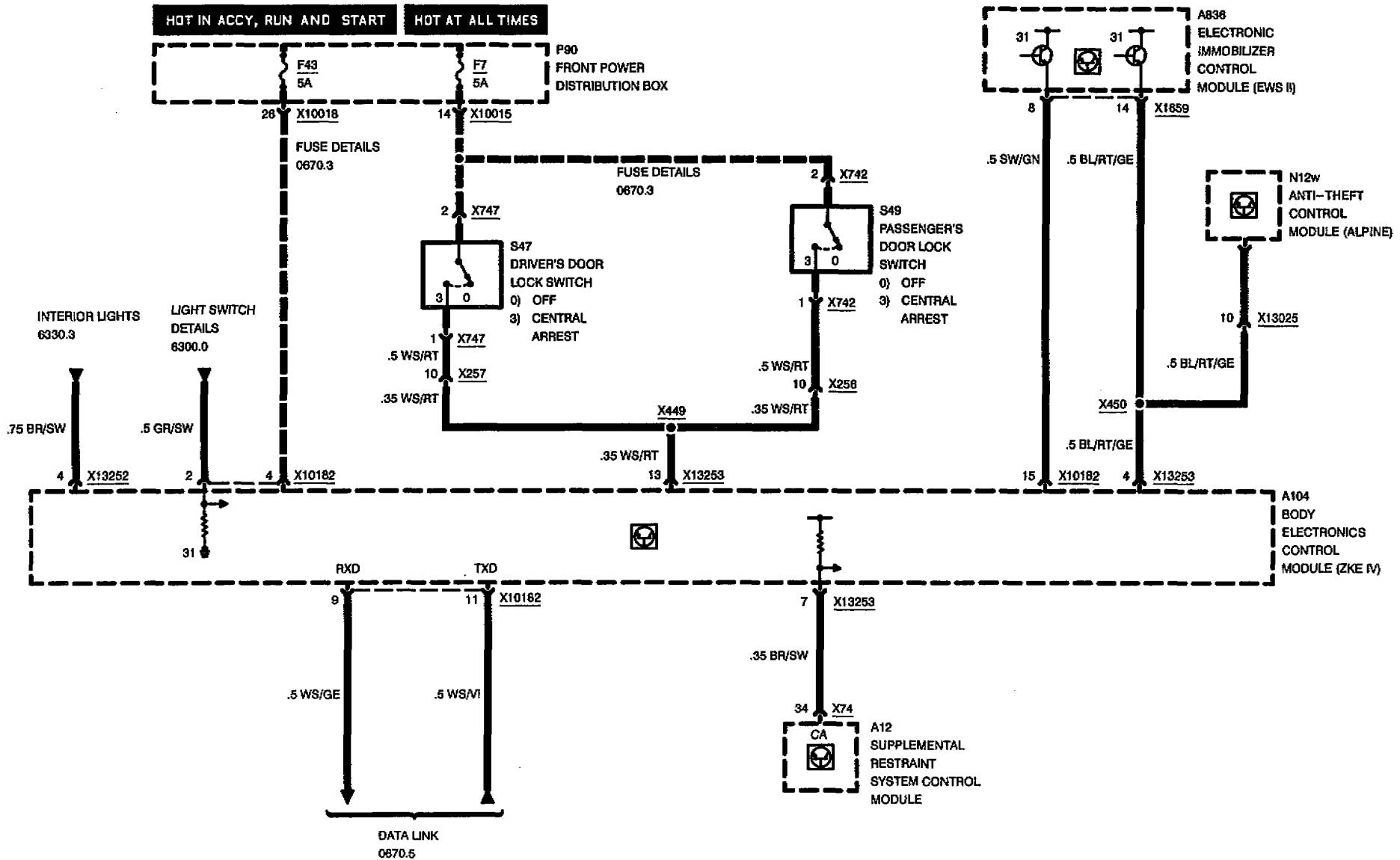




ZKE CENTRAL LOCKING (ZV)

INPUTS, DRIVE-AWAY PROTECTION

Z3

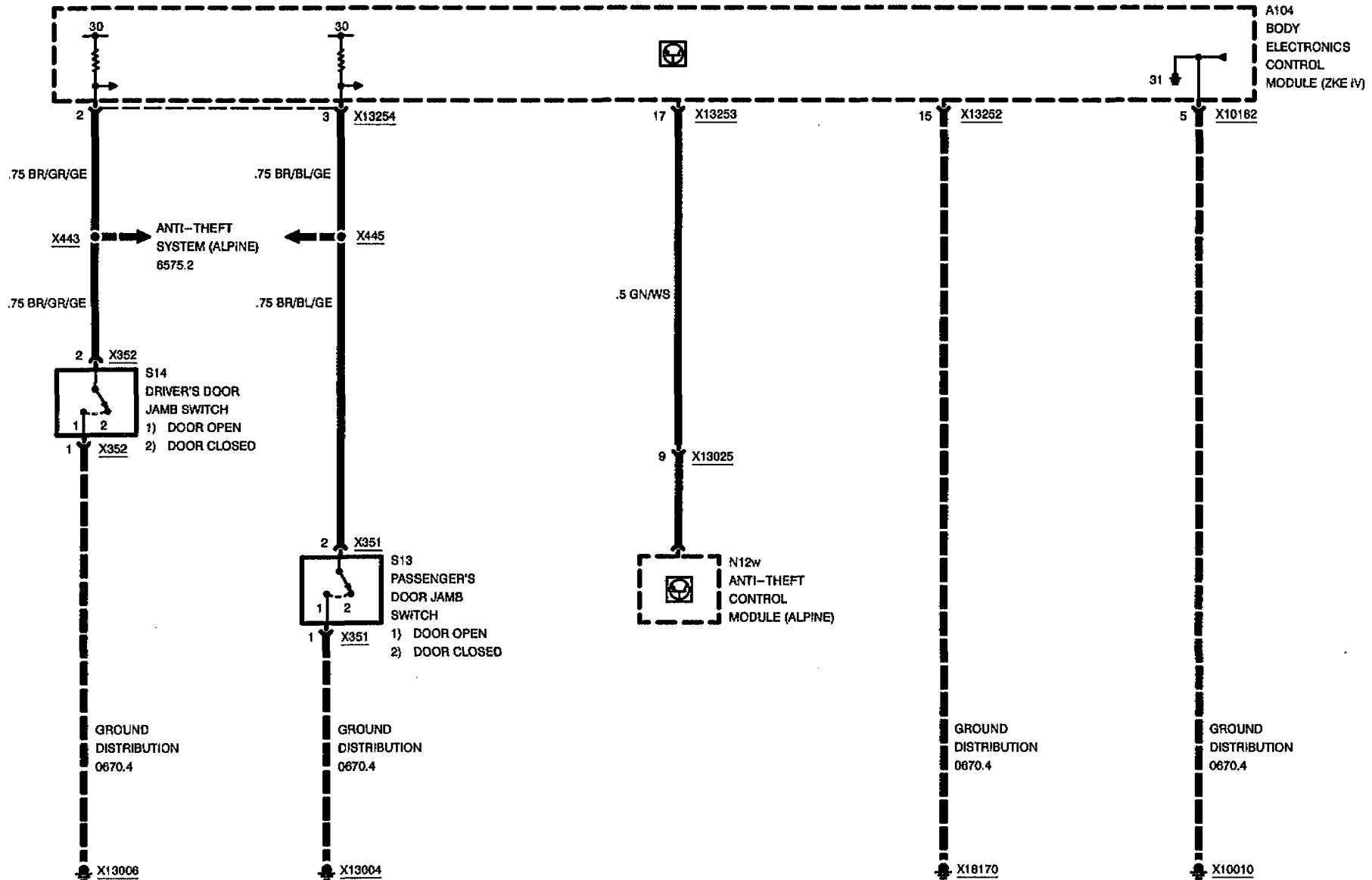




ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS

Z3

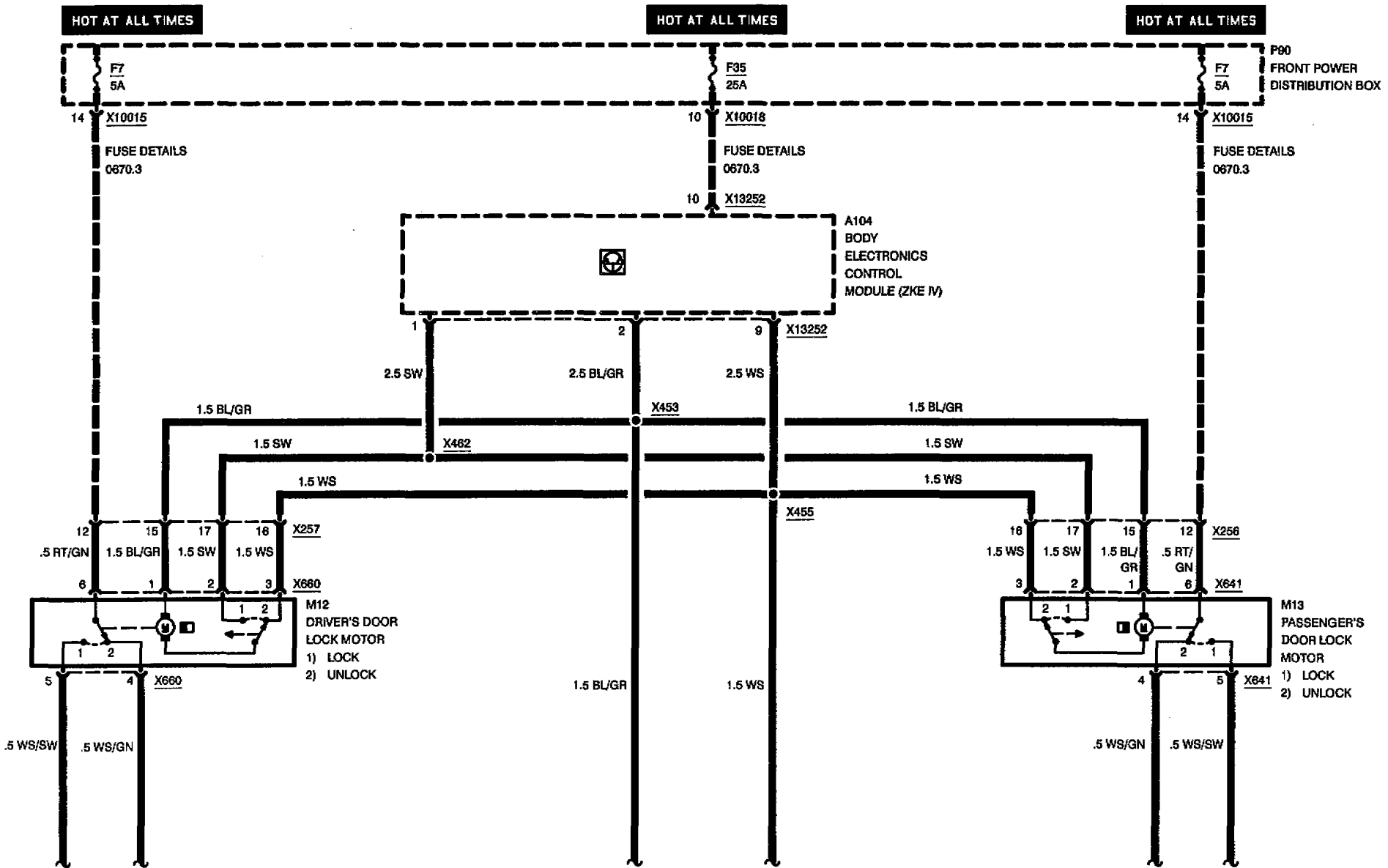




ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

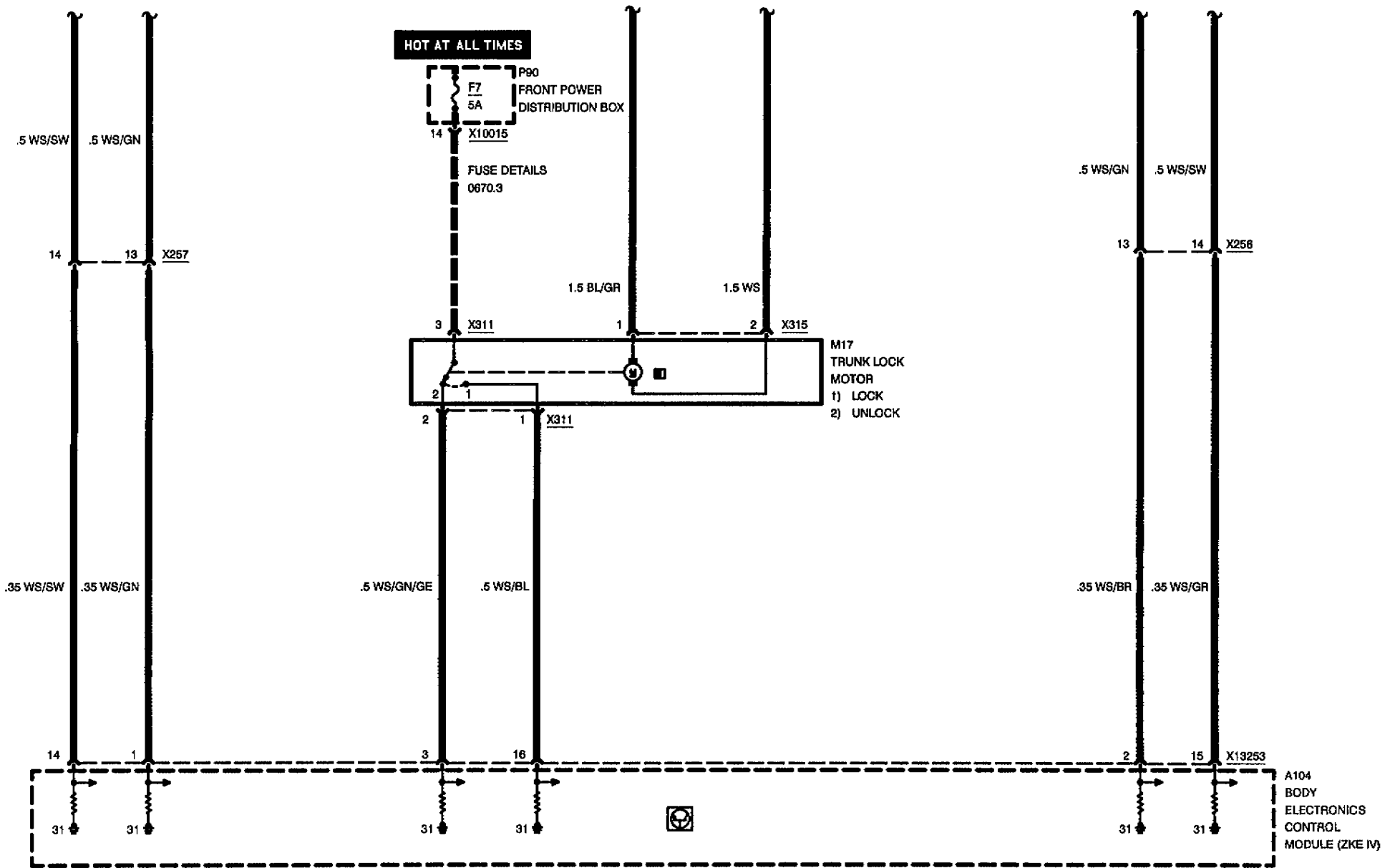
Z3



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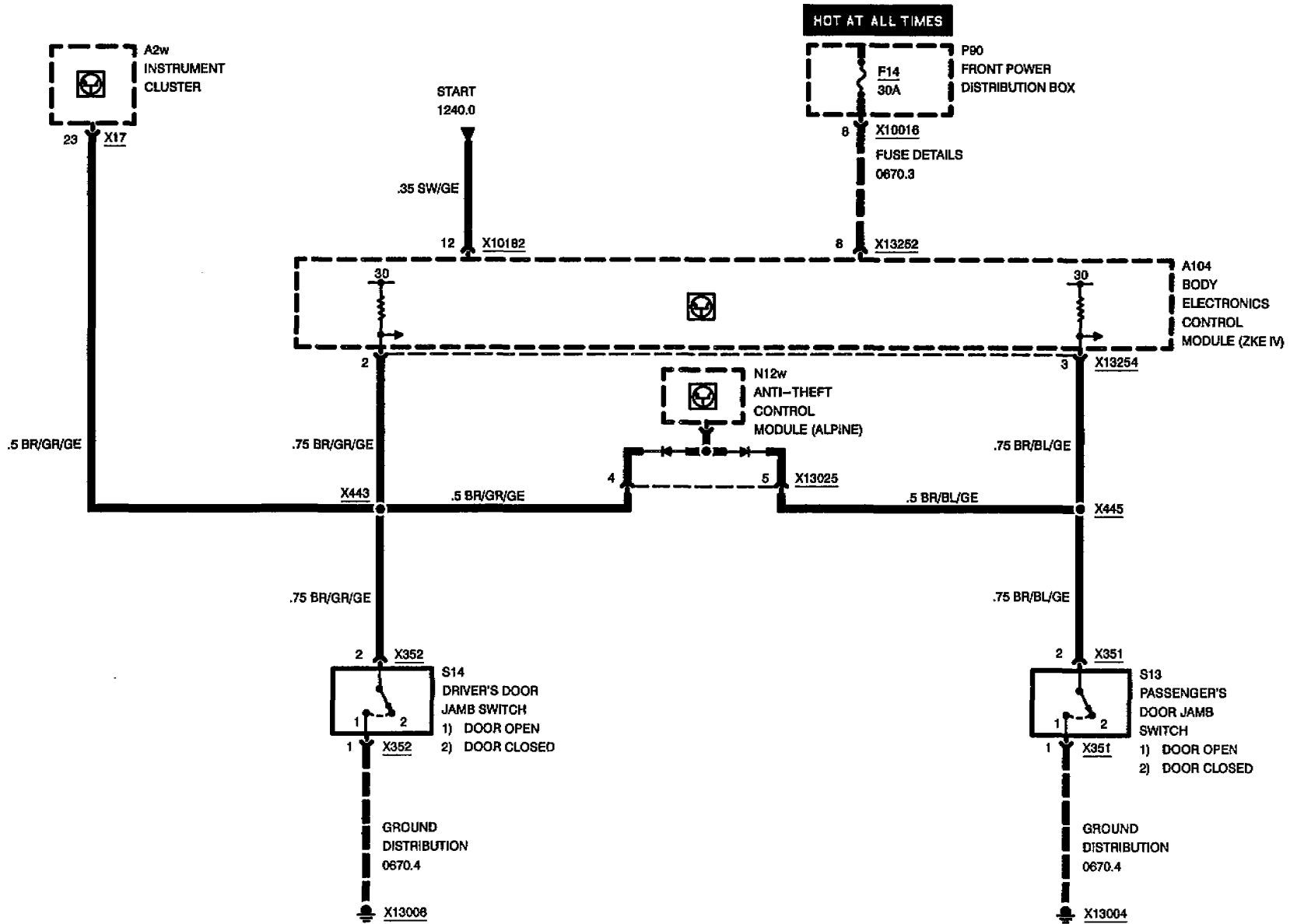




ZKE POWER WINDOWS (FH)

INPUT DETAILS

Z3



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5133.0-00

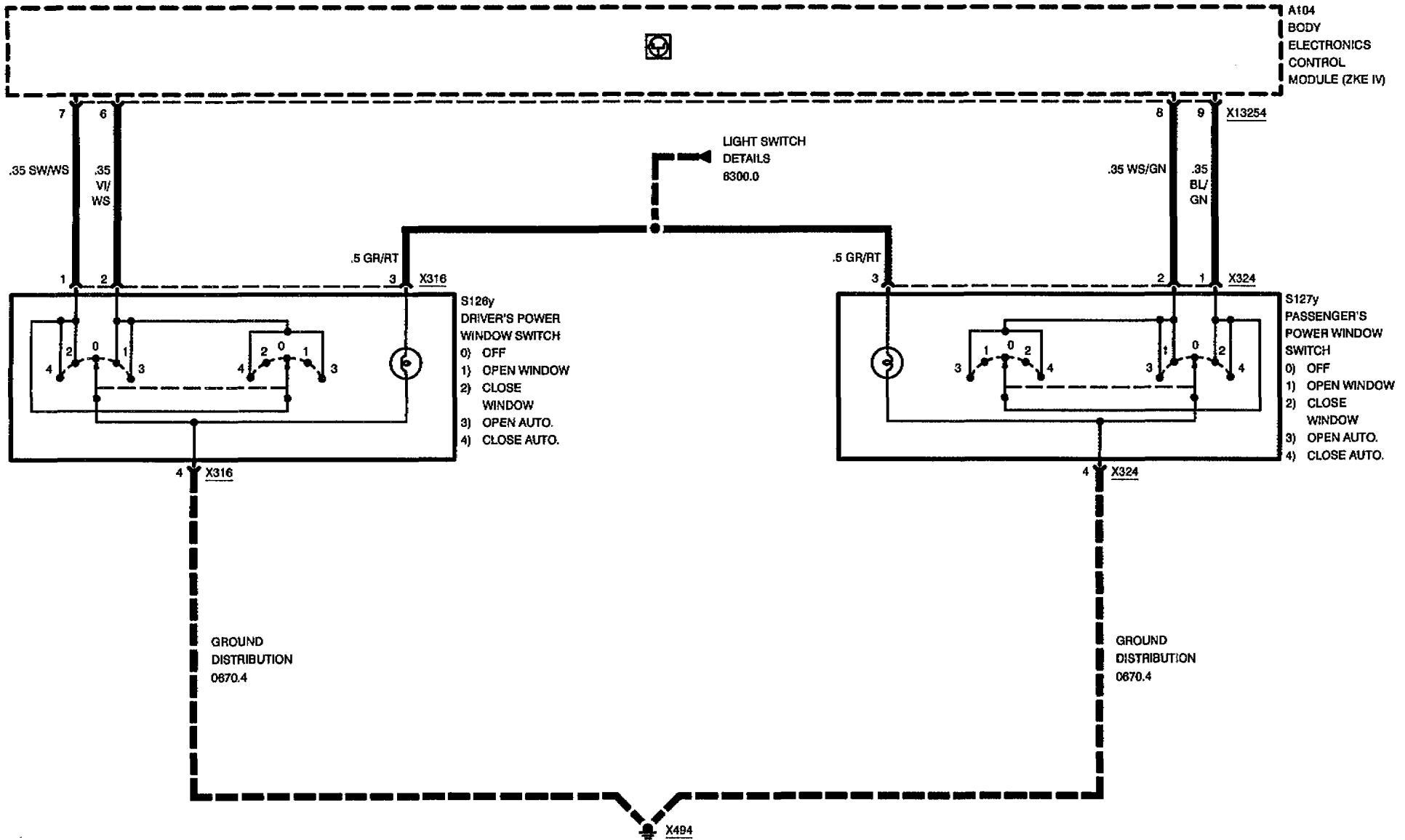
1998



ZKE POWER WINDOWS (FH)

INPUT DETAILS

Z3

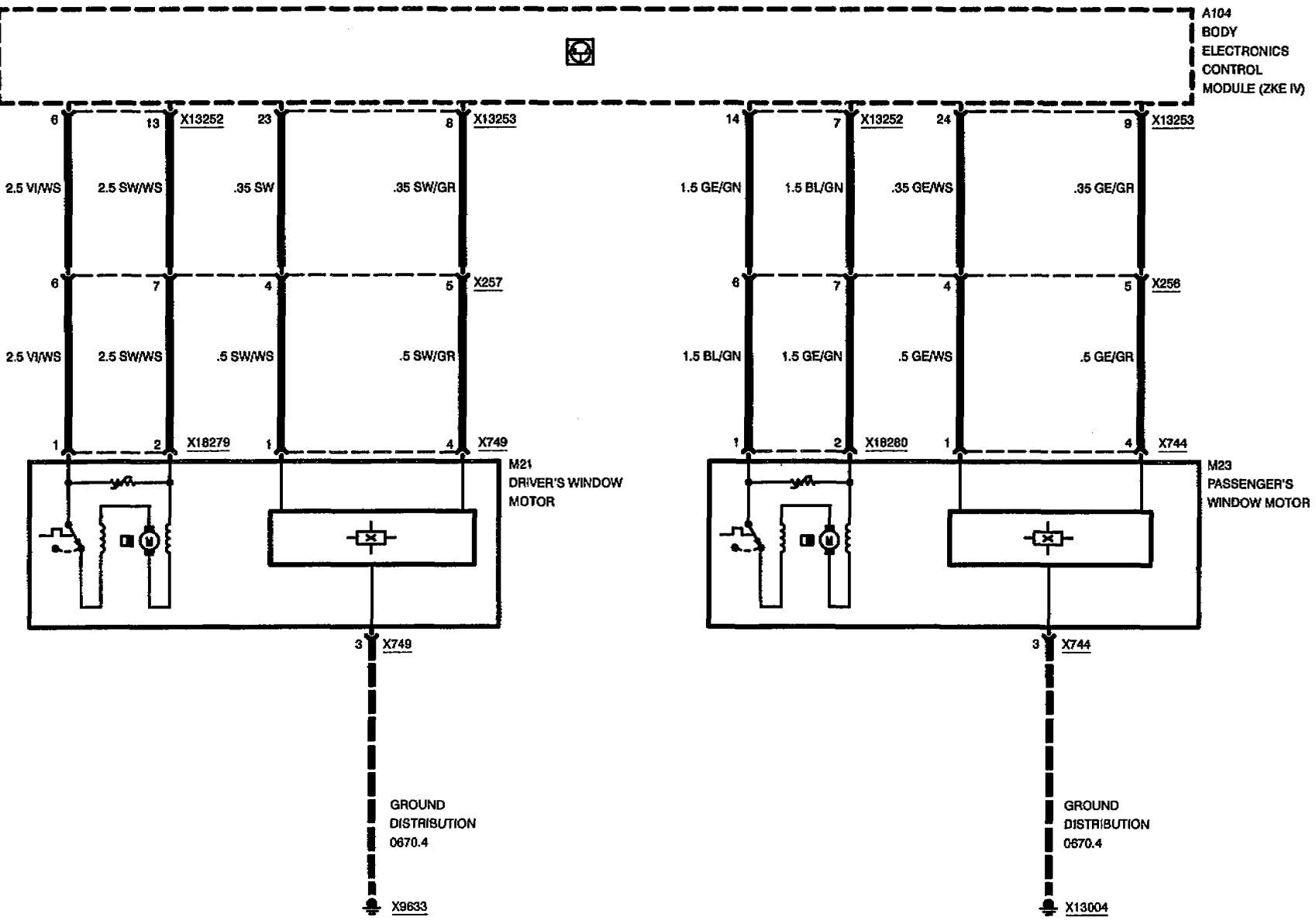


ZKE POWER WINDOWS (FH)

OUTPUT DETAILS

Z3

A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)

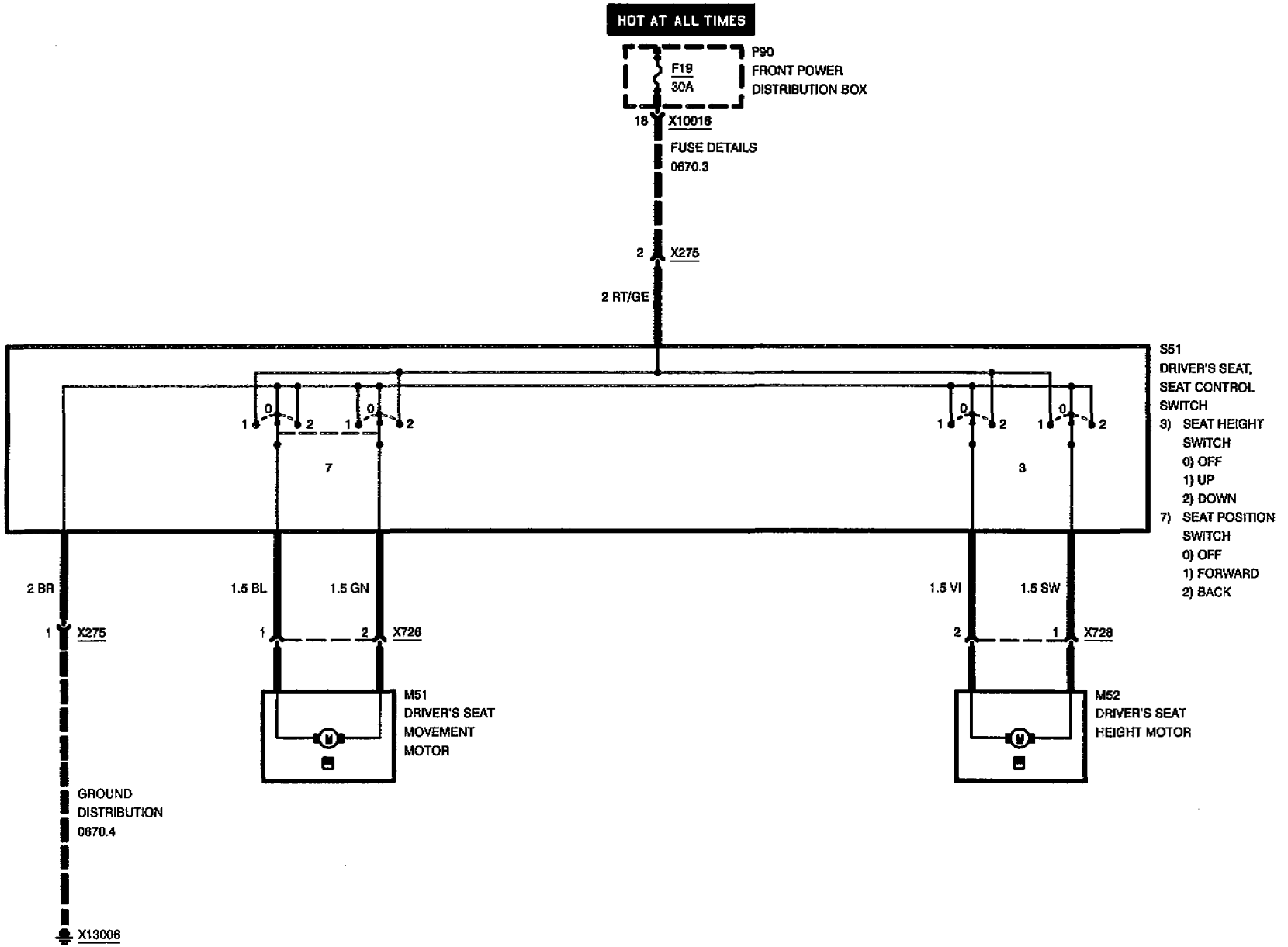




POWER SEATS

DRIVER'S SEAT

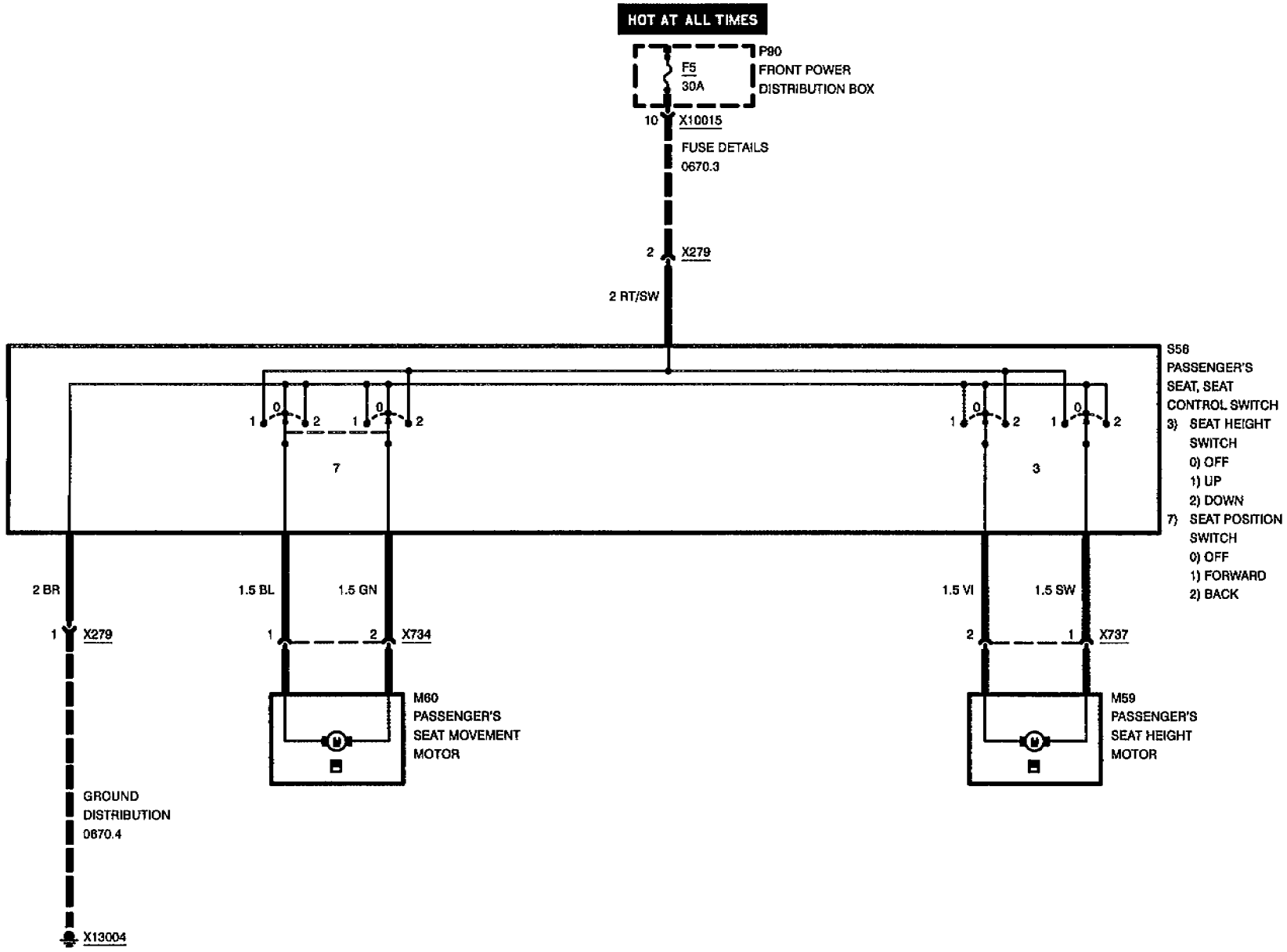
Z3

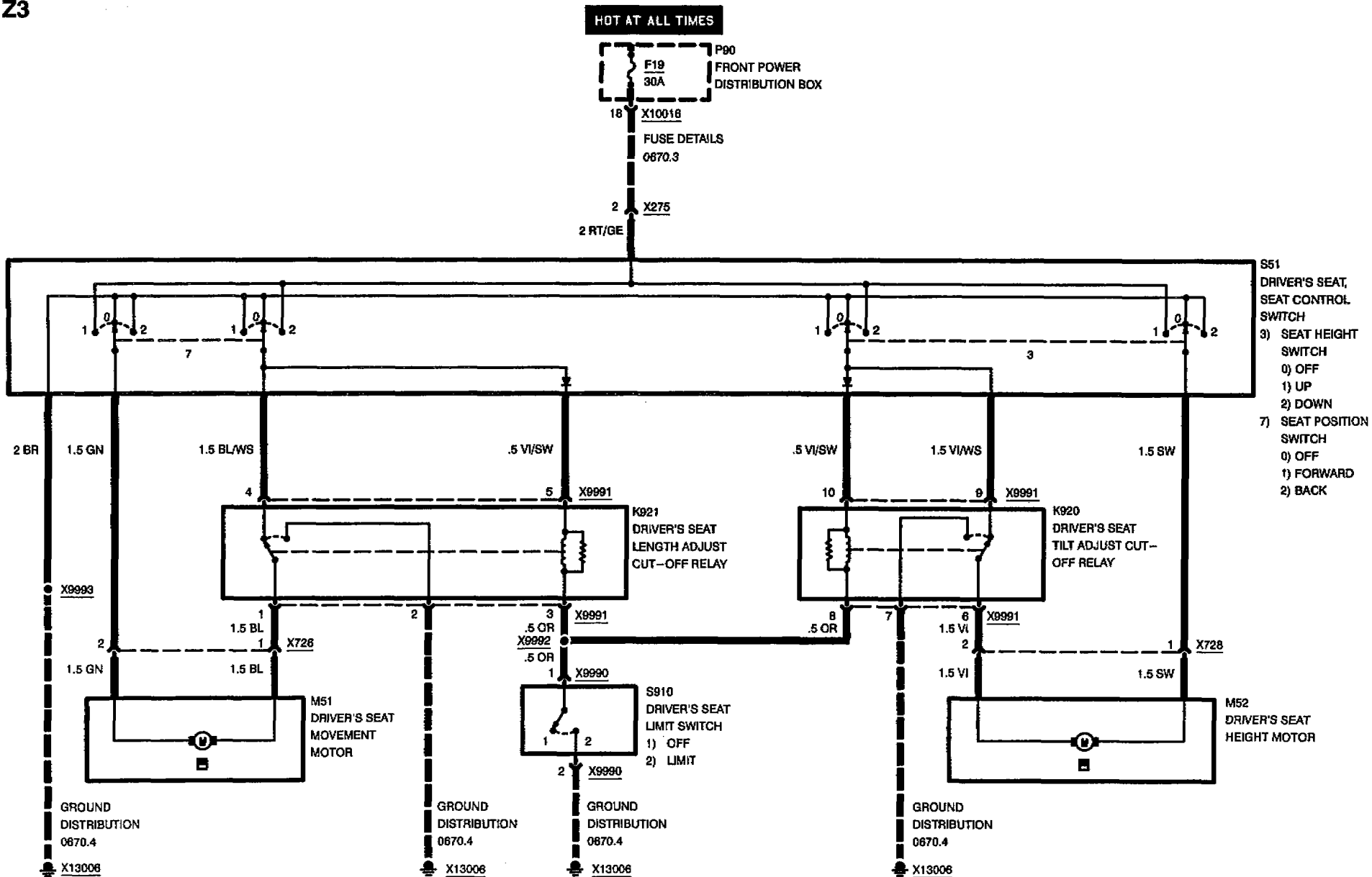




POWER SEATS

PASSENGER'S SEAT





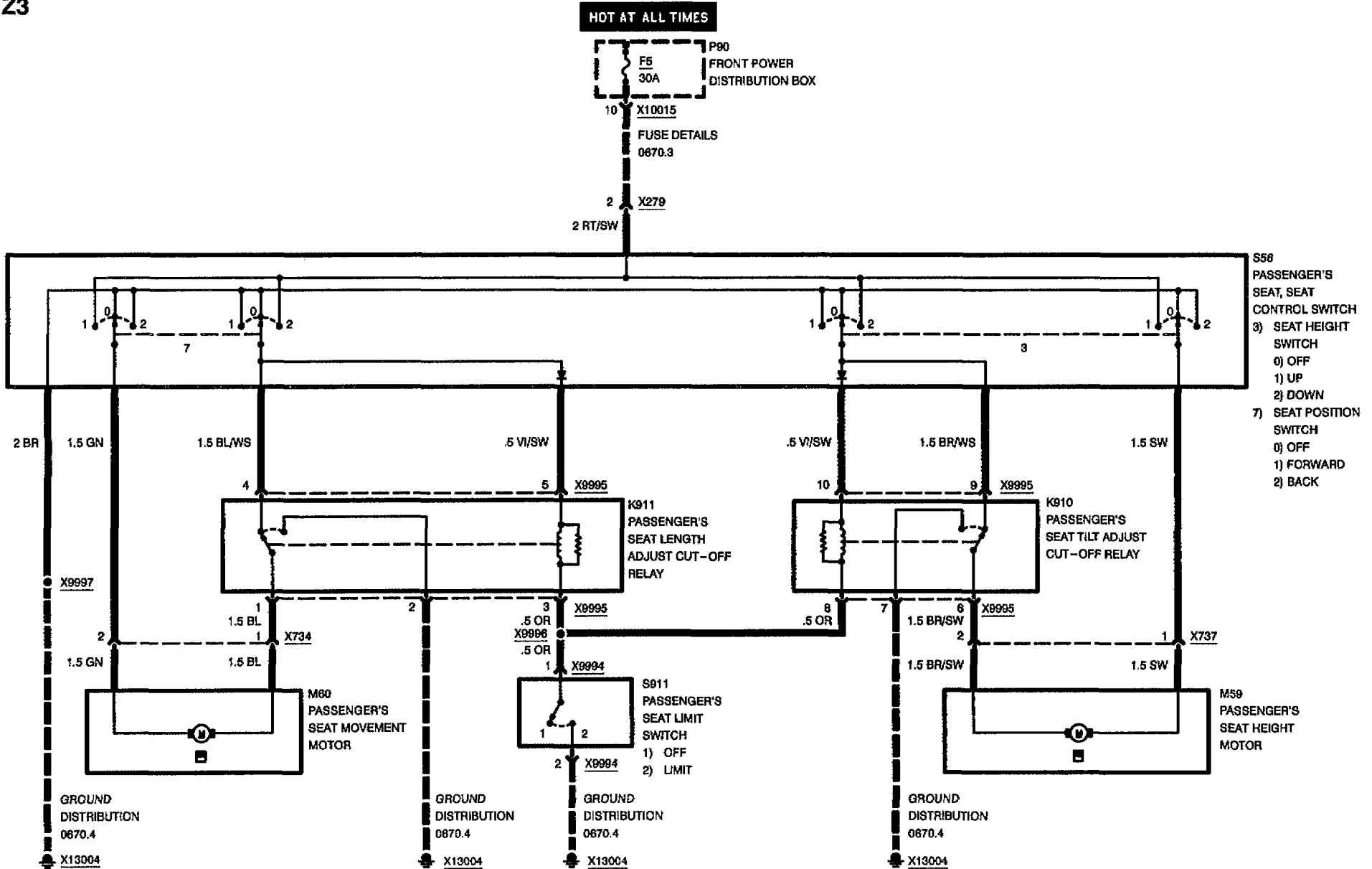


POWER SEATS

PASSENGER'S SEAT

Z3

SPORT SEATS



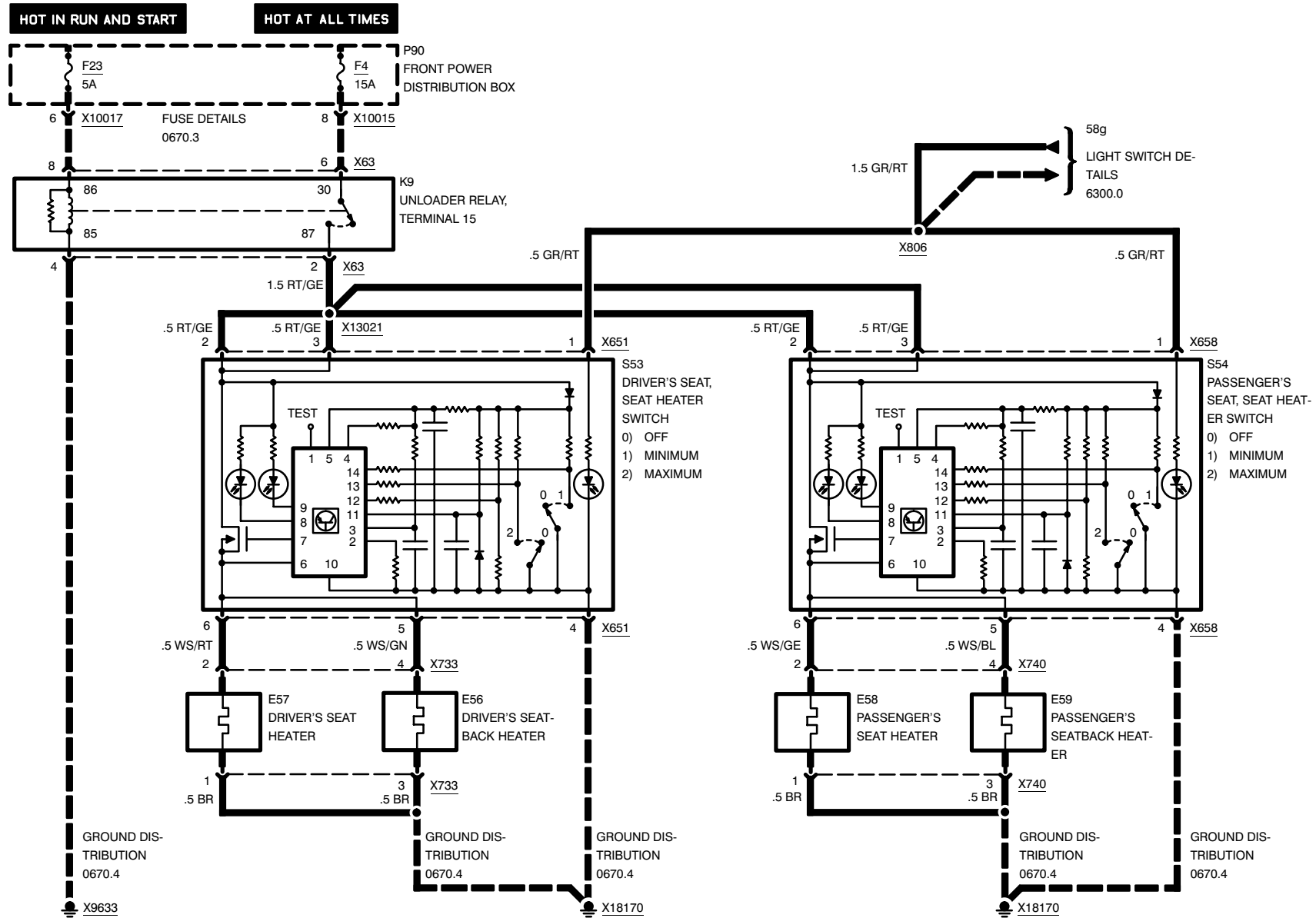
09/97

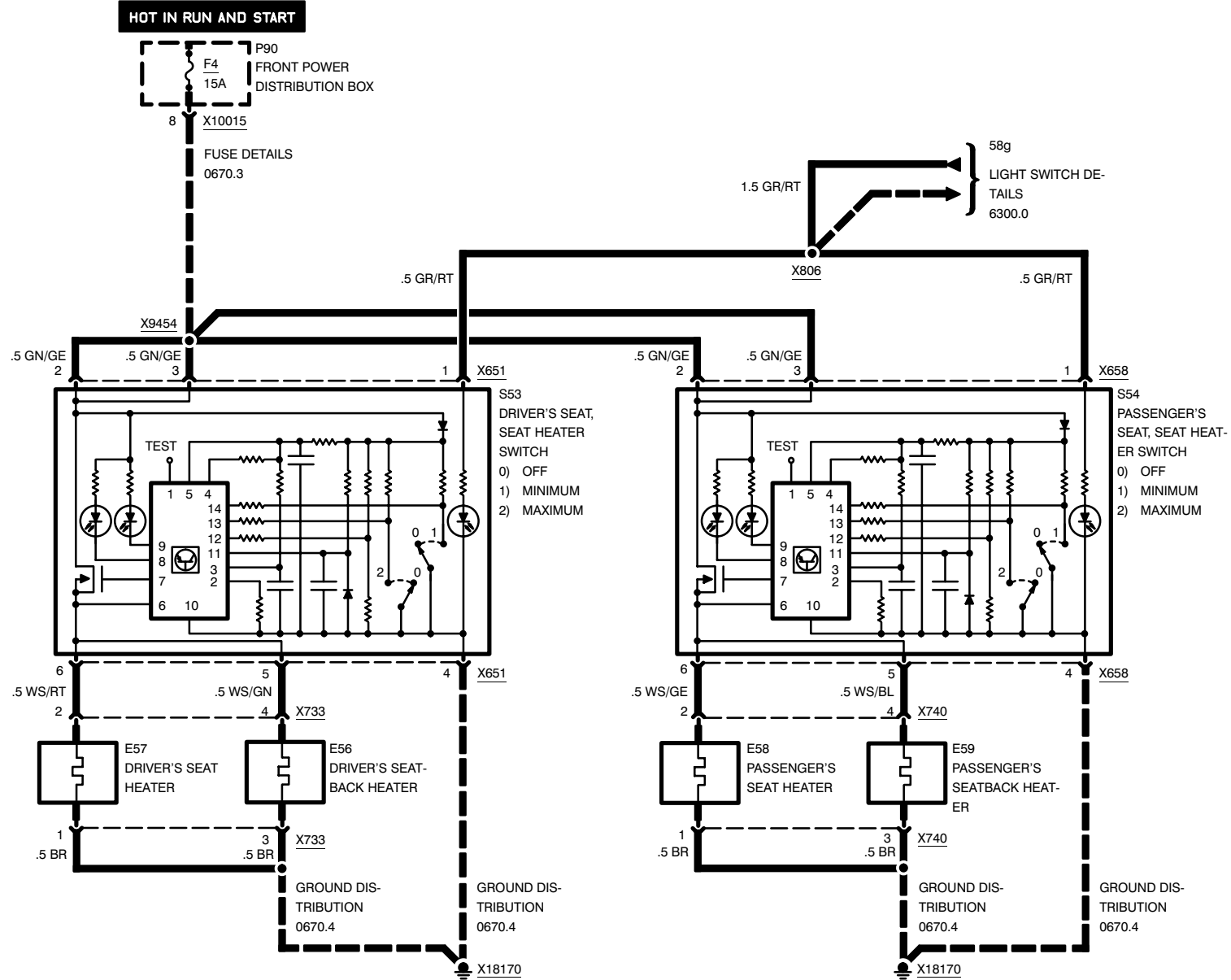
5200.0-03

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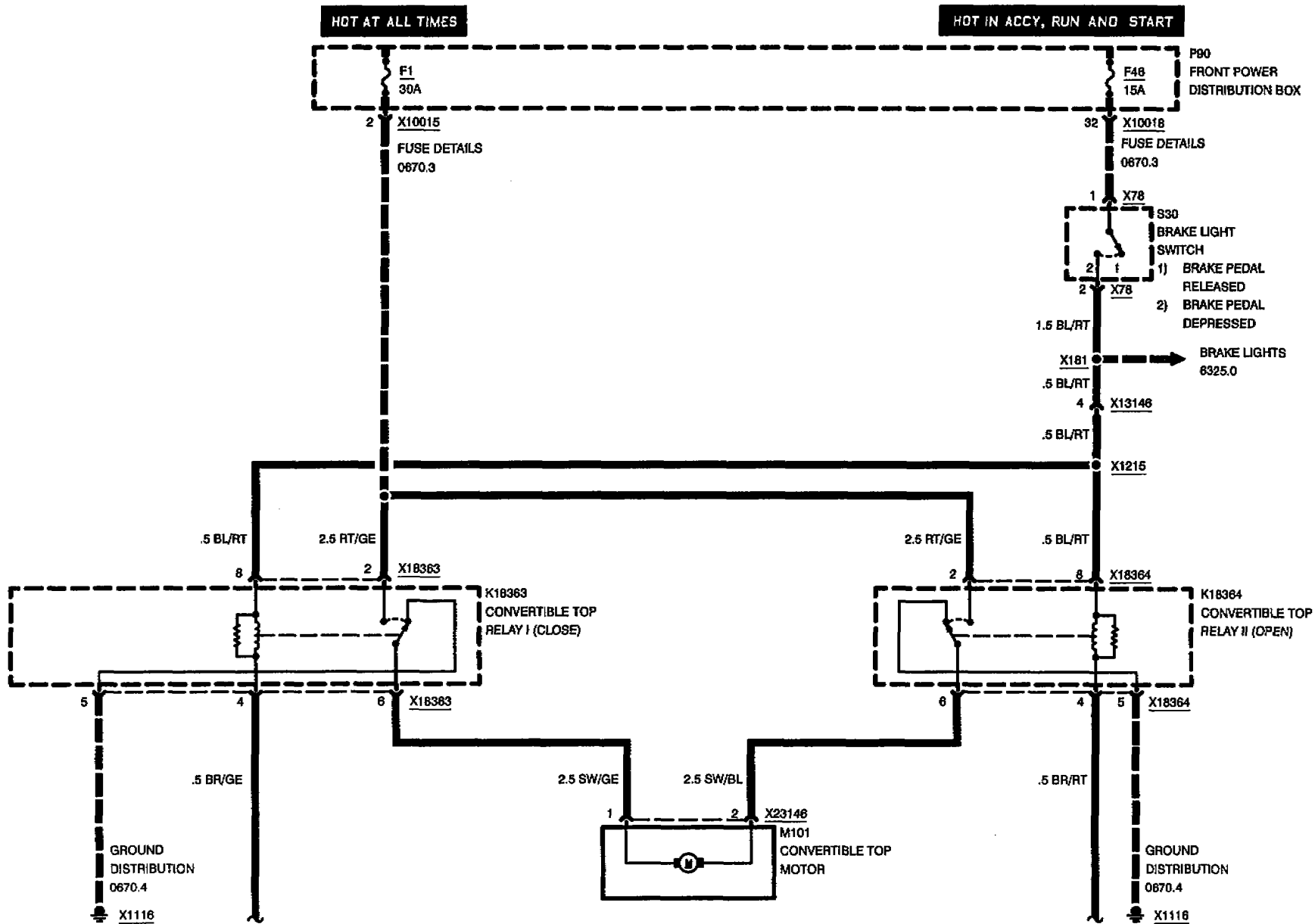
HEATED SEATS

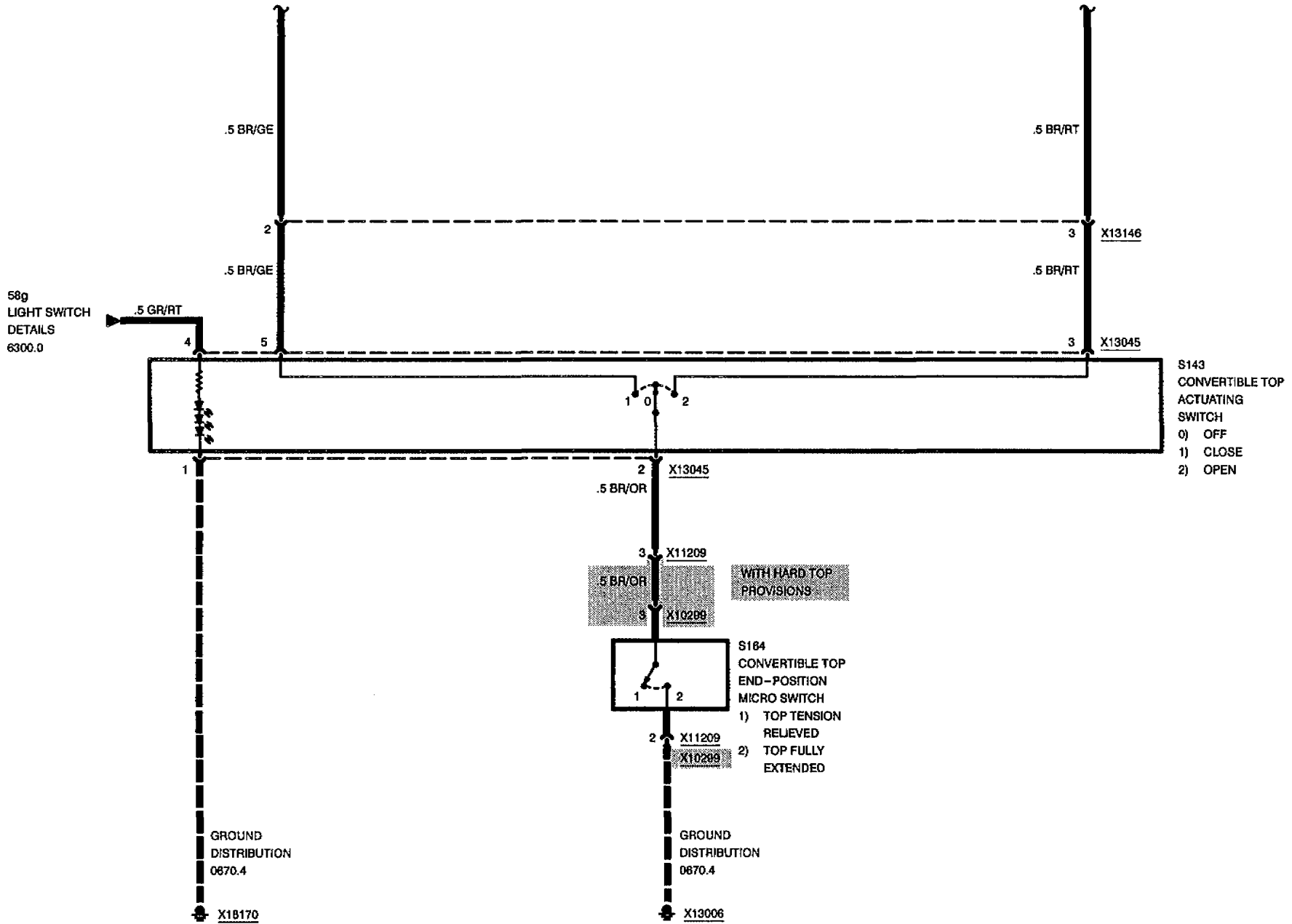
EARLY PRODUCTION

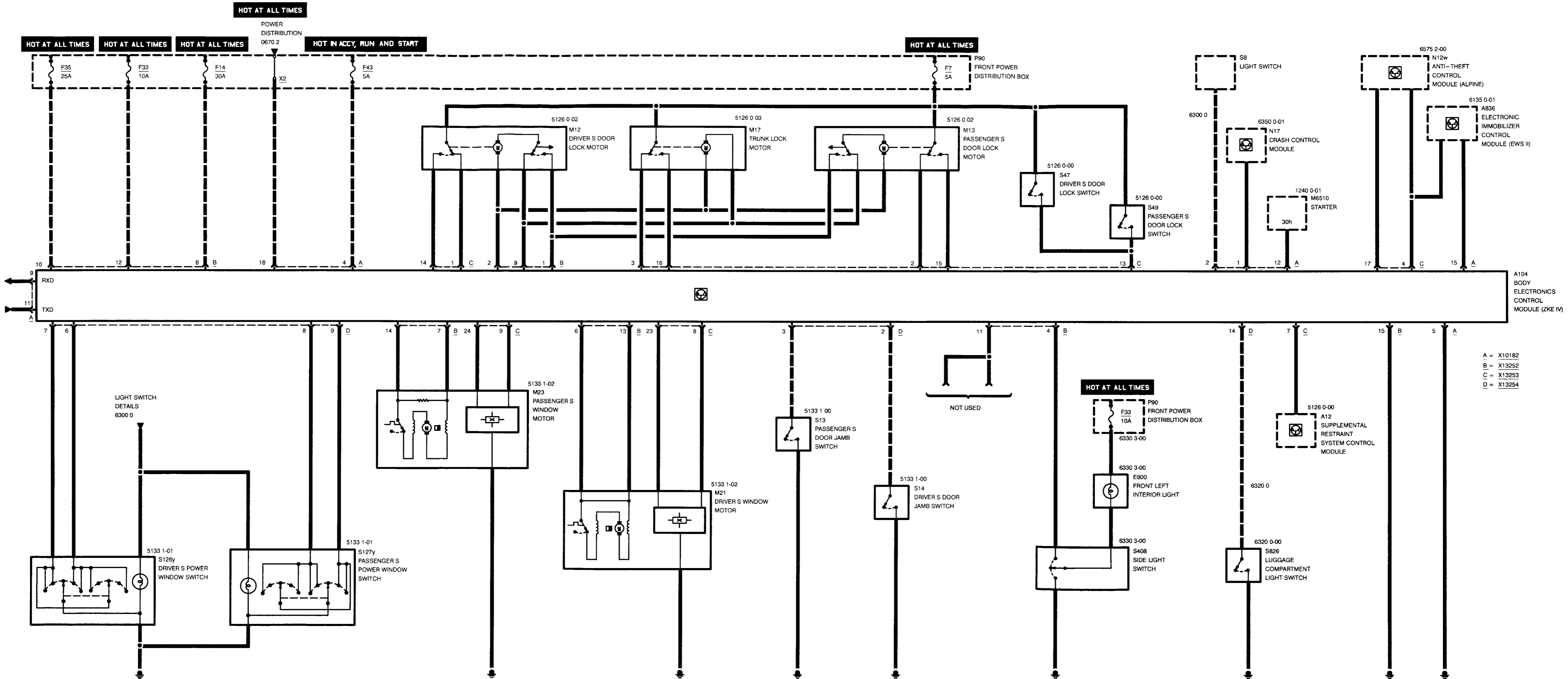




ELECTRO-MECHANICAL CONVERTIBLE TOP









Z3

**Pin Assignments**

A = X10182	18 Pins, black
B = X13252	15 Pins, black
C = X13253	26 Pins, yellow
D = X13254	26 Pins, green

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control module
2	E	Light signal	Light switch
3		Not used	
4	E	Power supply	Front power distribution box, fuse 43
5	M	Ground	Ground point
6		Not used	
7		Not used	
8		Not used	
9	A	Diagnosis RxD signal	Data link connector
10		Not used	
11	E/A	Diagnosis TxD signal	Data link connector
12	E	Start signal	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Electronic immobilizer control module (EWS II)
16		Not used	
17		Not used	
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Z3



Pin Assignments

X13252

Pin	Type	Description/Function	Connection
1	A	Central arrest signal	Lock motors
2	A	Unlock signal	Lock motors
3		Not used	
4	A	Automatic interior light signal	Side light switch
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box, fuse 14
9	A	Lock signal	Lock motors
10	E	Power supply	Front power distribution box, fuse 35
11	A	Consumer cut-off signal	Not used
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground point

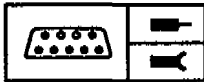
X13253

Pin	Type	Description/Function	Connection
1	E	Unlock signal	Door lock motor driver's door
2	E	Unlock signal	Door lock motor passenger's door
3	E	Unlock signal	Trunk lock motor
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Supplemental restraint system control module
8	E	Revolution signal	Power window motor driver's door
9	E	Revolution signal	Power window motor passenger's door
10		Not used	

E = Input, A = Output, M = Ground



Z3

**Pin Assignments**

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver's door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger's door
16	E	Lock signal trunk lid	Trunk lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger's side
25		Not used	
26		Not used	

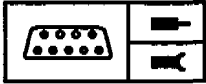
X13254

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4		Not used	
5		Not used	
6	E	OPEN signal	Power window switch driver's door
7	E	CLOSE signal	Power window switch driver's door
8	E	OPEN signal	Power window switch passenger's door
9	E	CLOSE signal	Power window switch passenger's door
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground



Z3

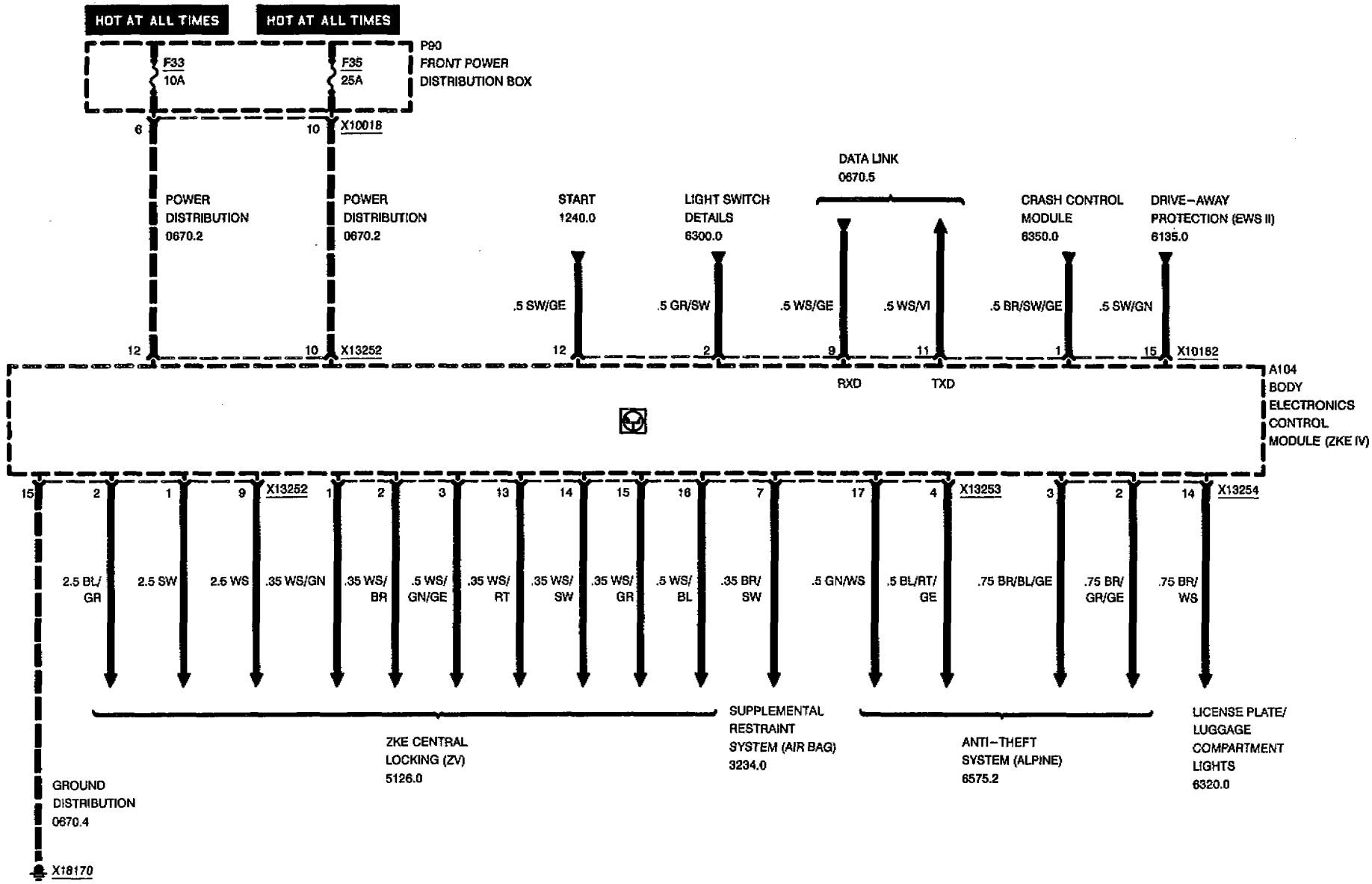


Pin Assignments

Pin	Type	Description/Function	Connection
13		Not used	
14	E	Luggage compartment signal	Luggage compartment light switch
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

CENTRAL BODY ELECTRONICS (ZKE IV)



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1998



Z3

CENTRAL BODY ELECTRONICS (ZKE IV)

HOT AT ALL TIMES

POWER
DISTRIBUTION
0670.2

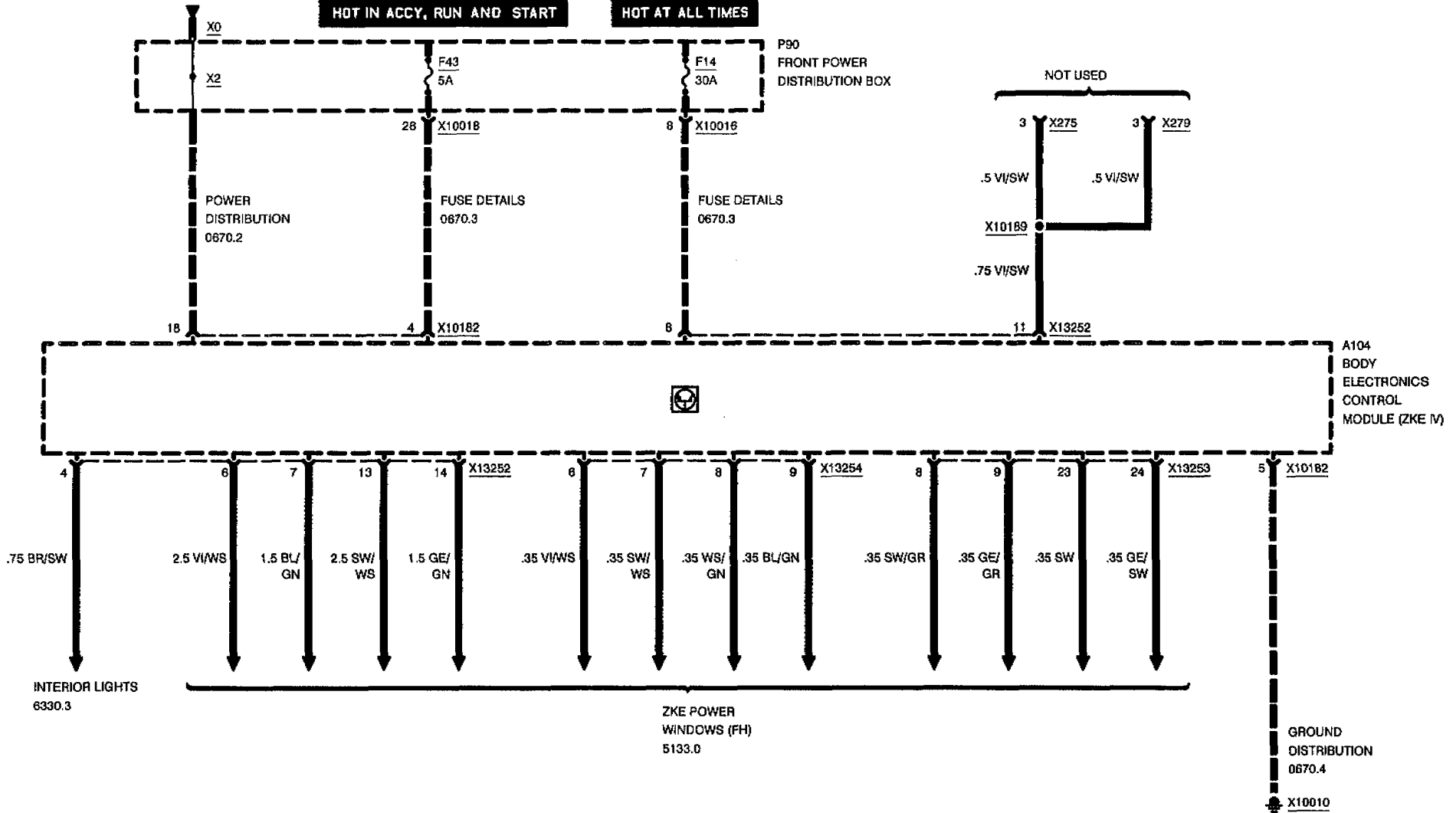
HOT IN ACCY, RUN AND START

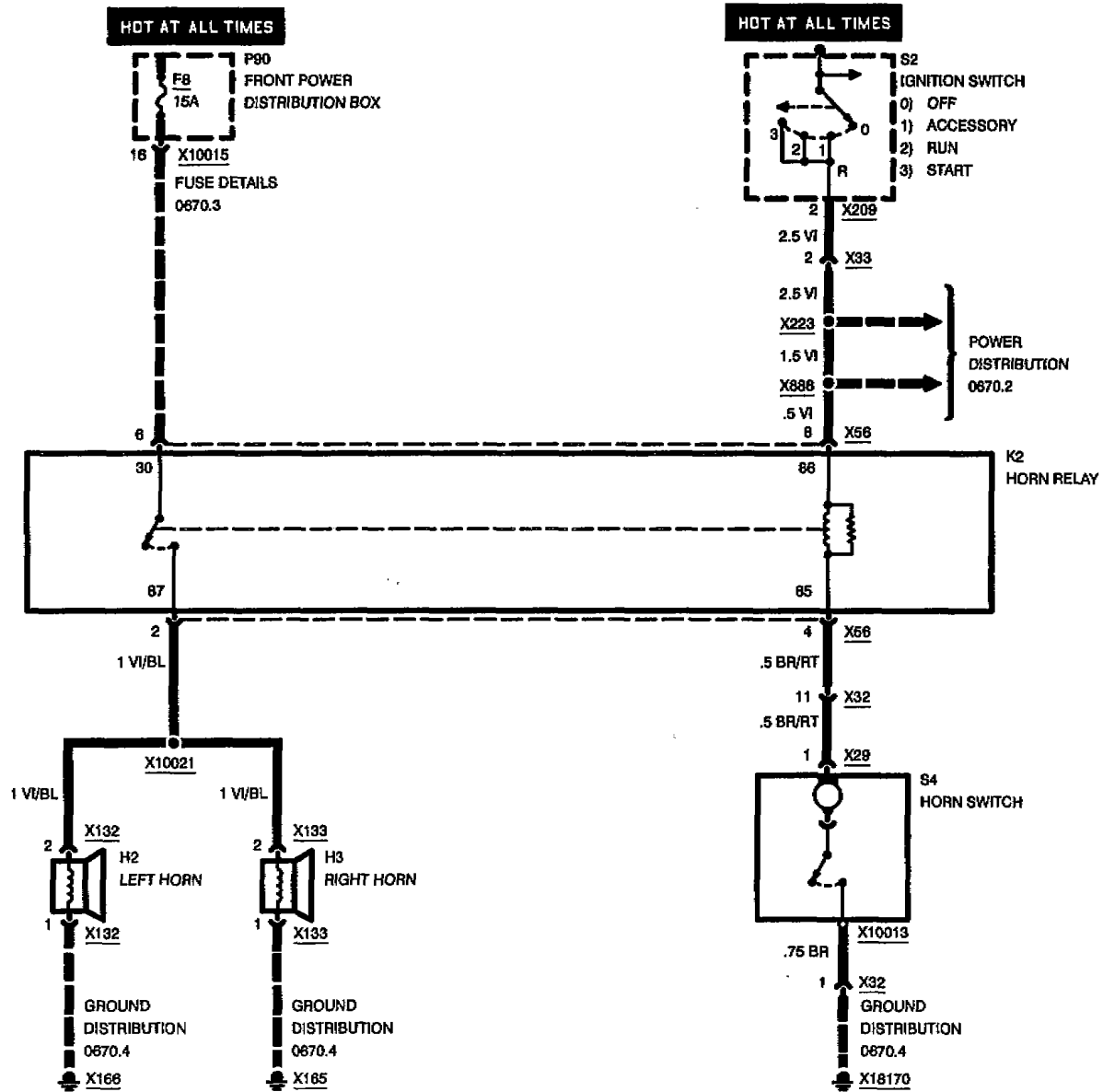
HOT AT ALL TIMES

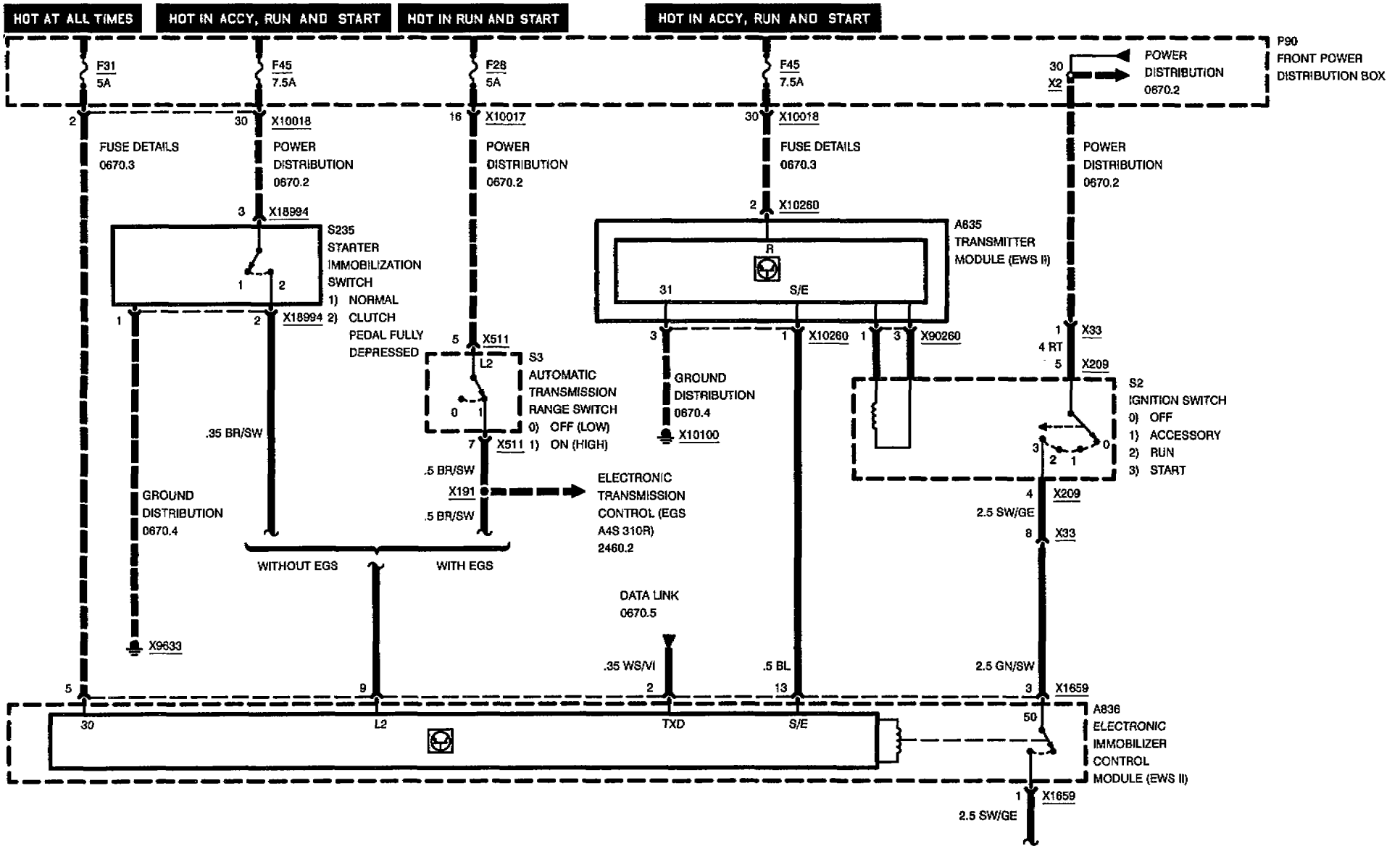
P90
FRONT POWER
DISTRIBUTION BOX

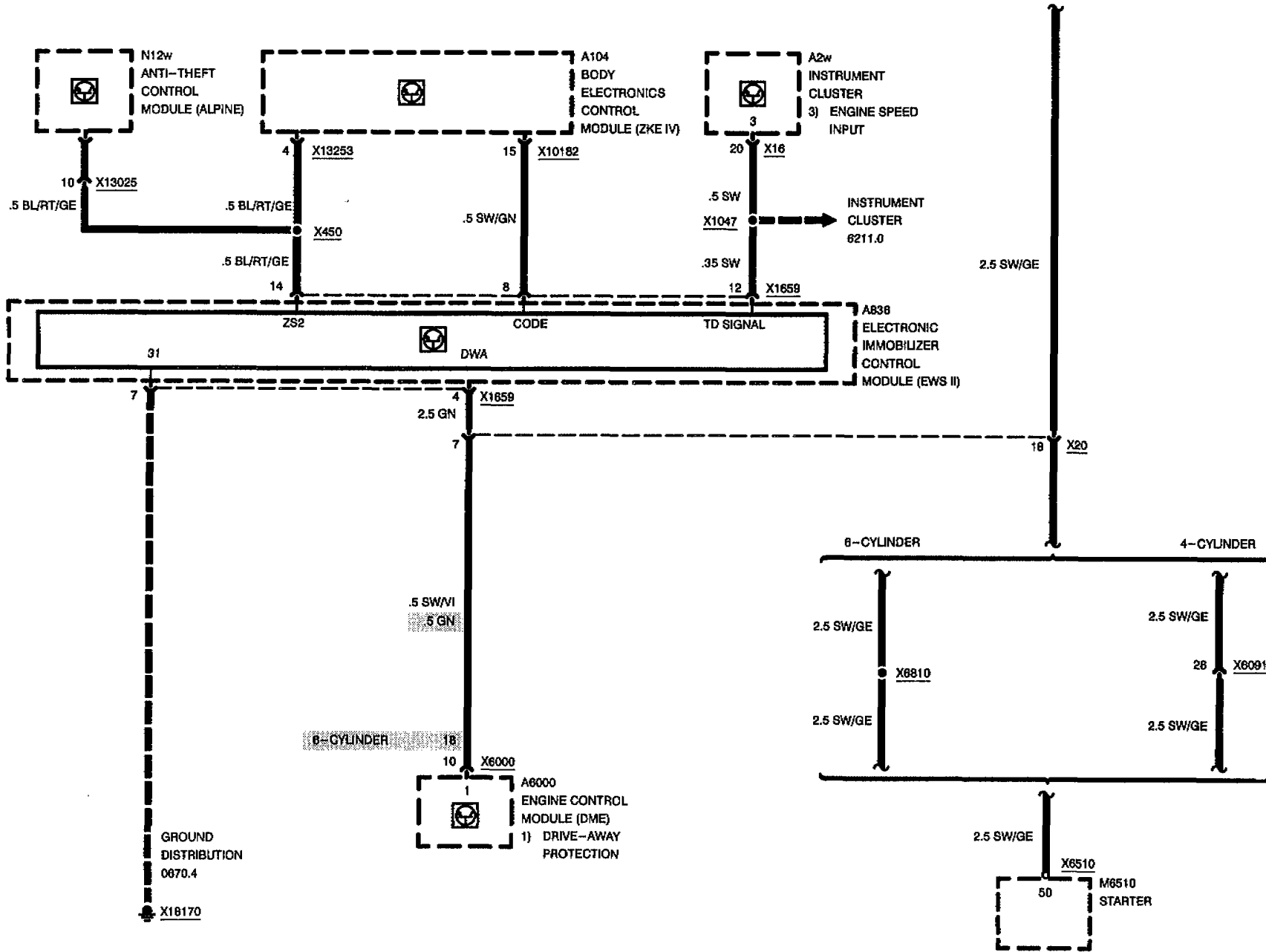
NOT USED

A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)





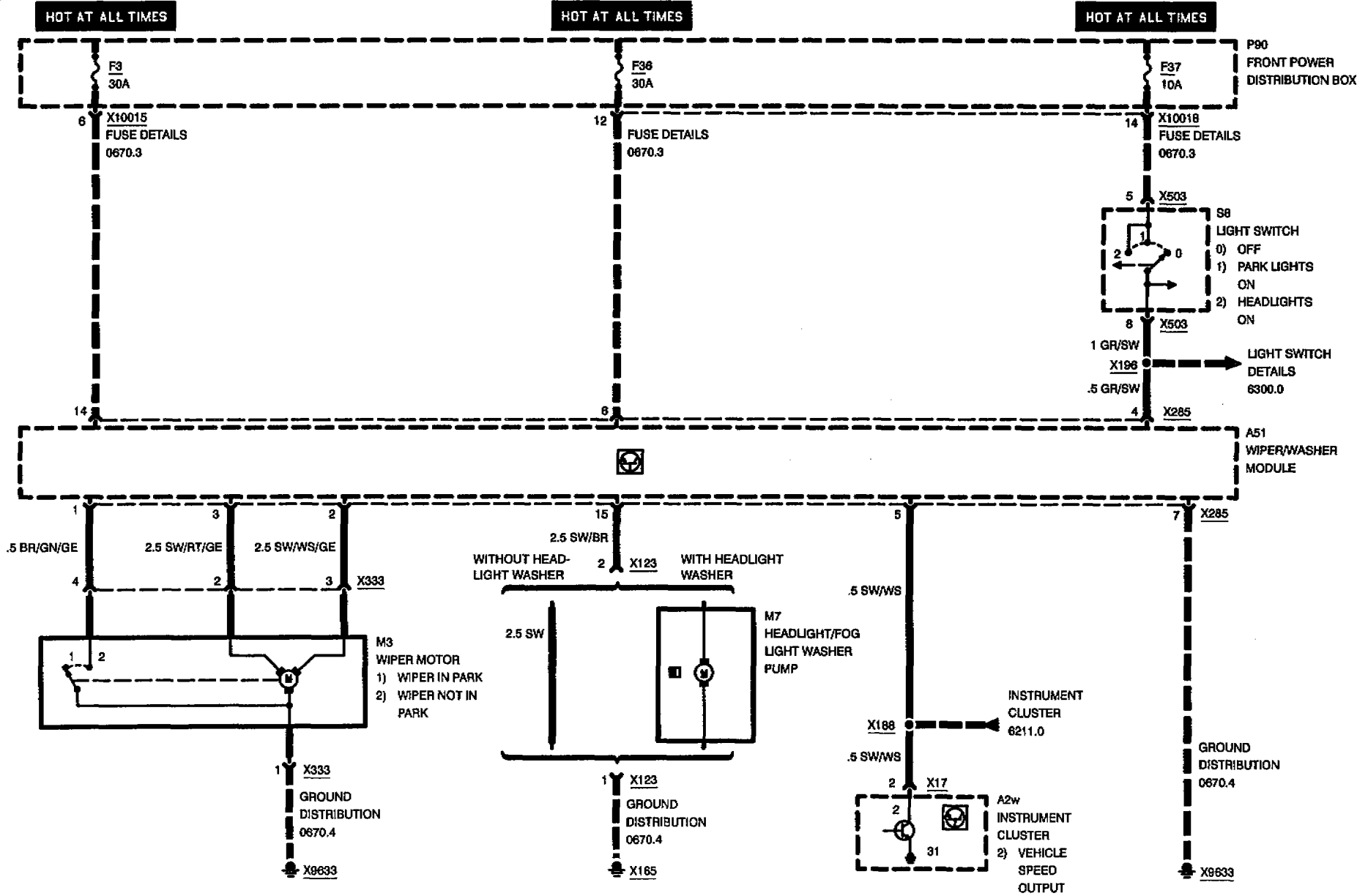




WIPER/WASHER MODULE (WWM)

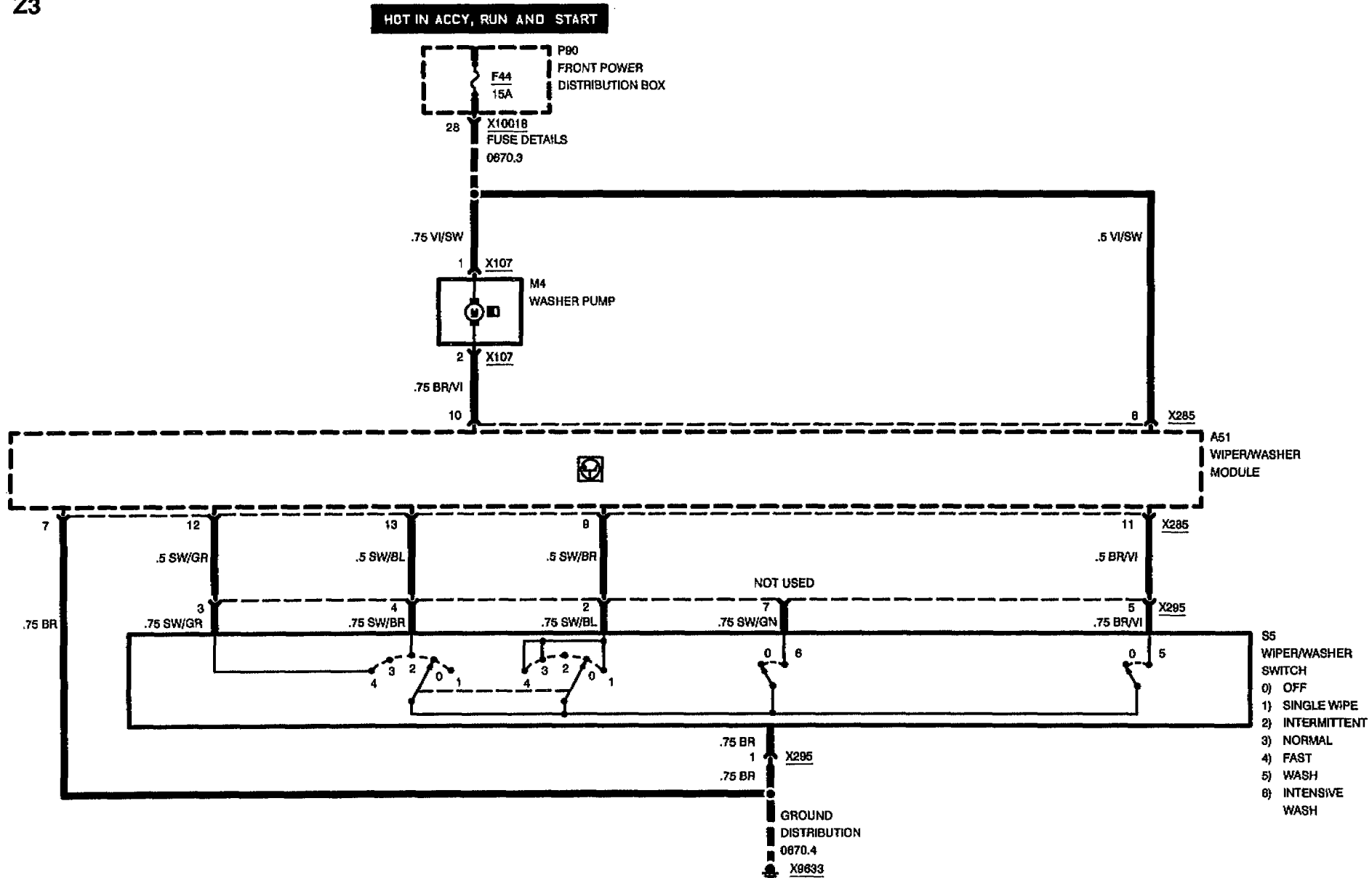
HIGH

Z3



WIPER/WASHER MODULE (WWM)

HIGH

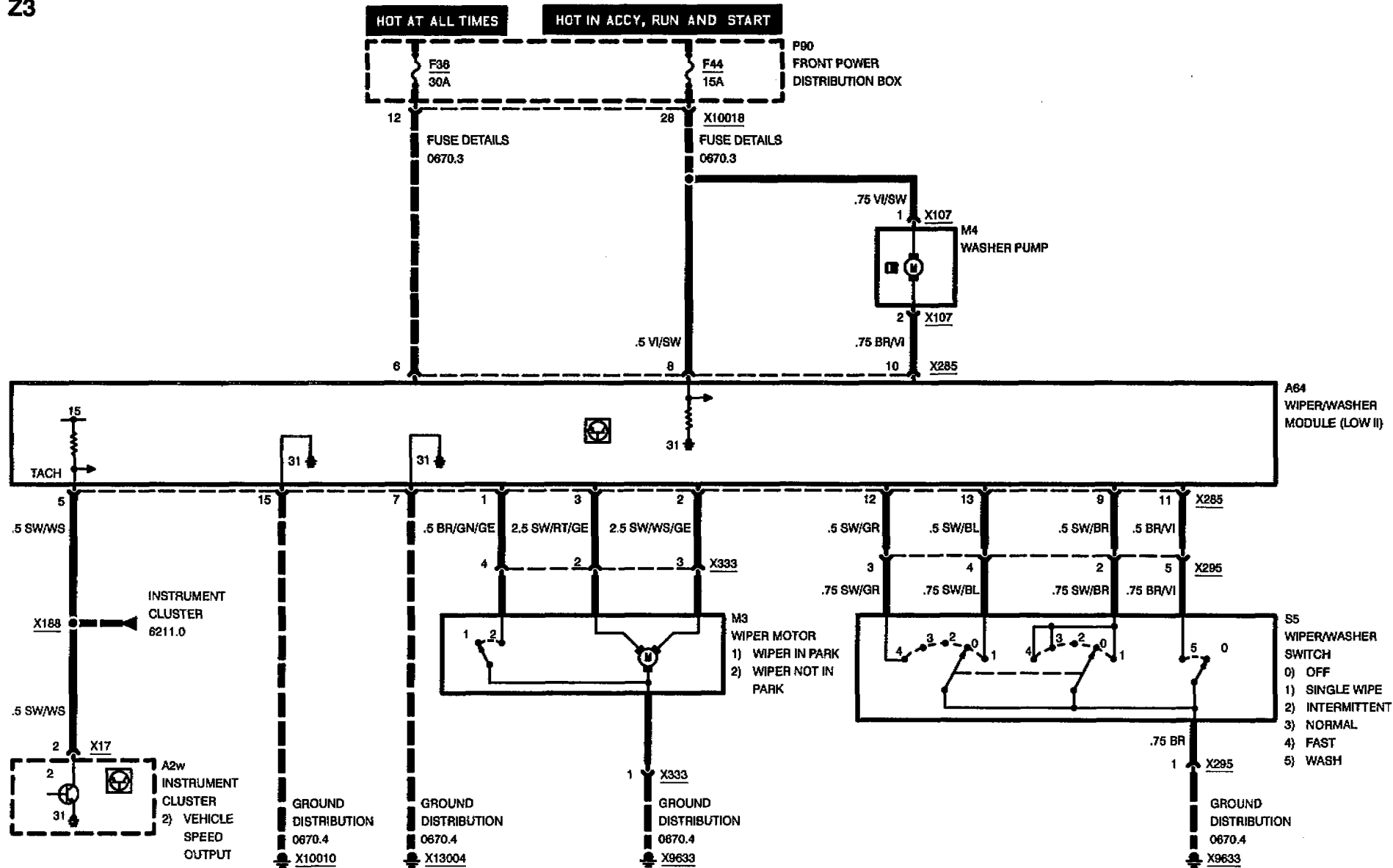




WIPER/WASHER MODULE (WWM)

LOW

Z3

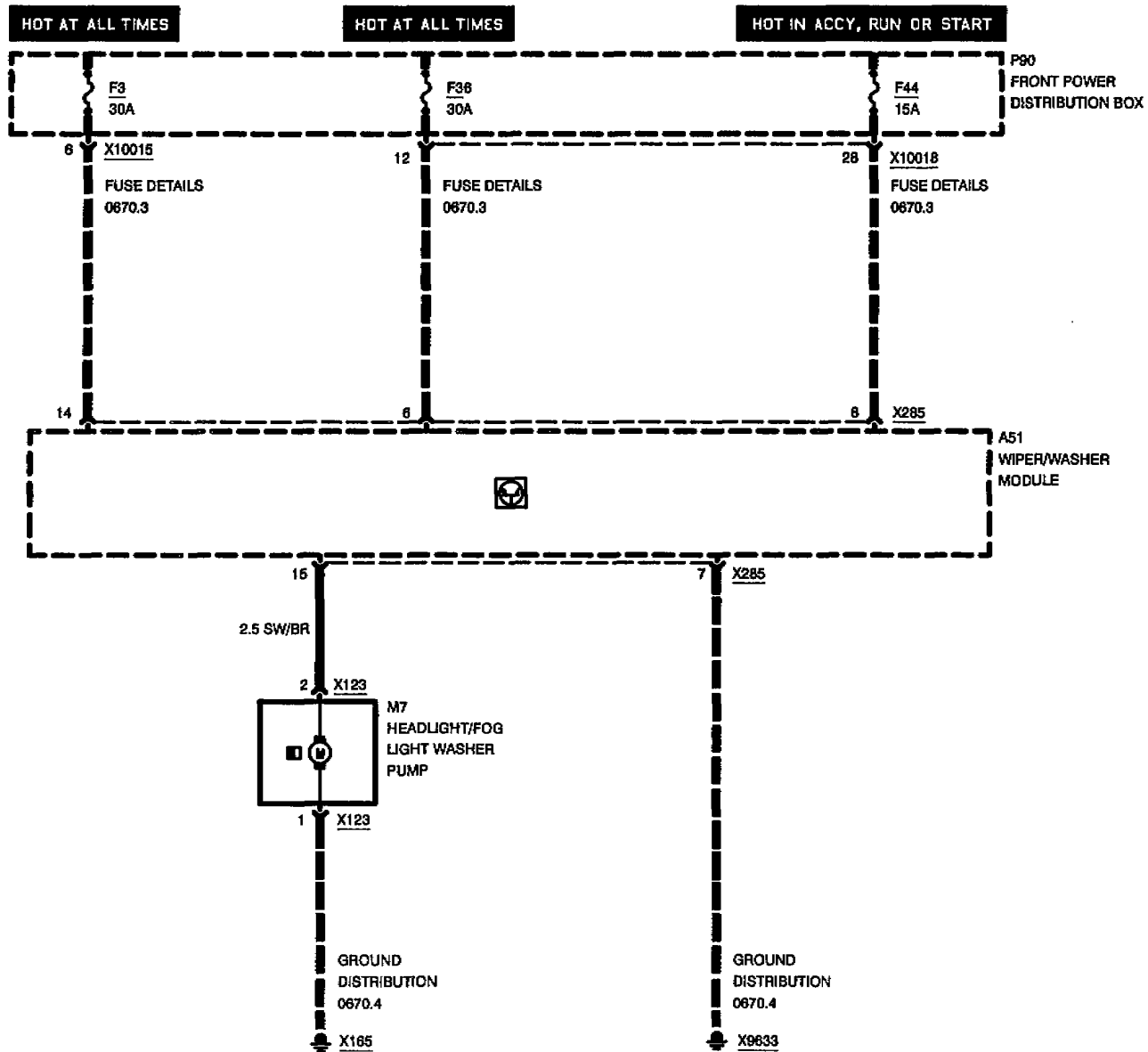


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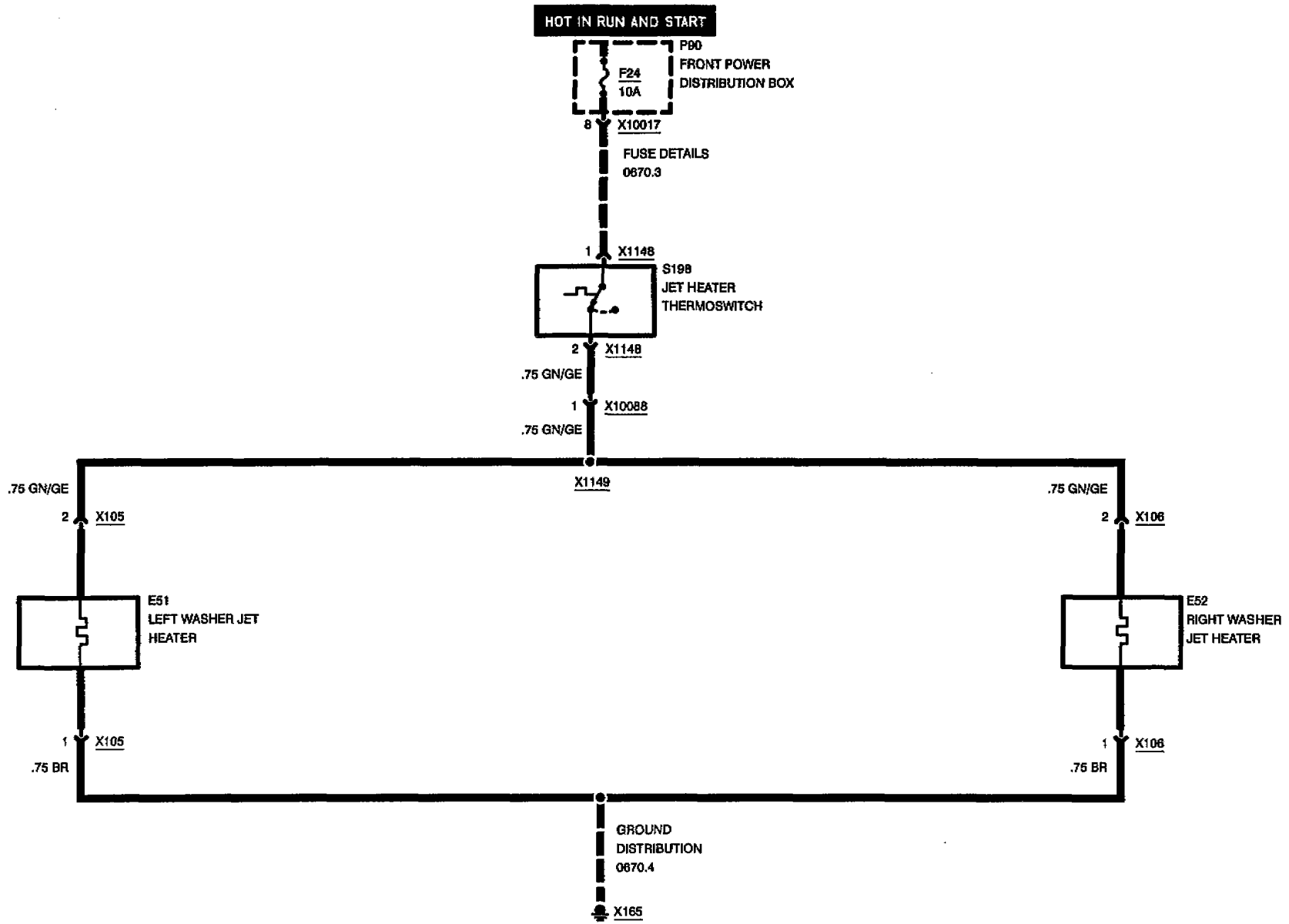
HEADLIGHT WASHER (SRA)

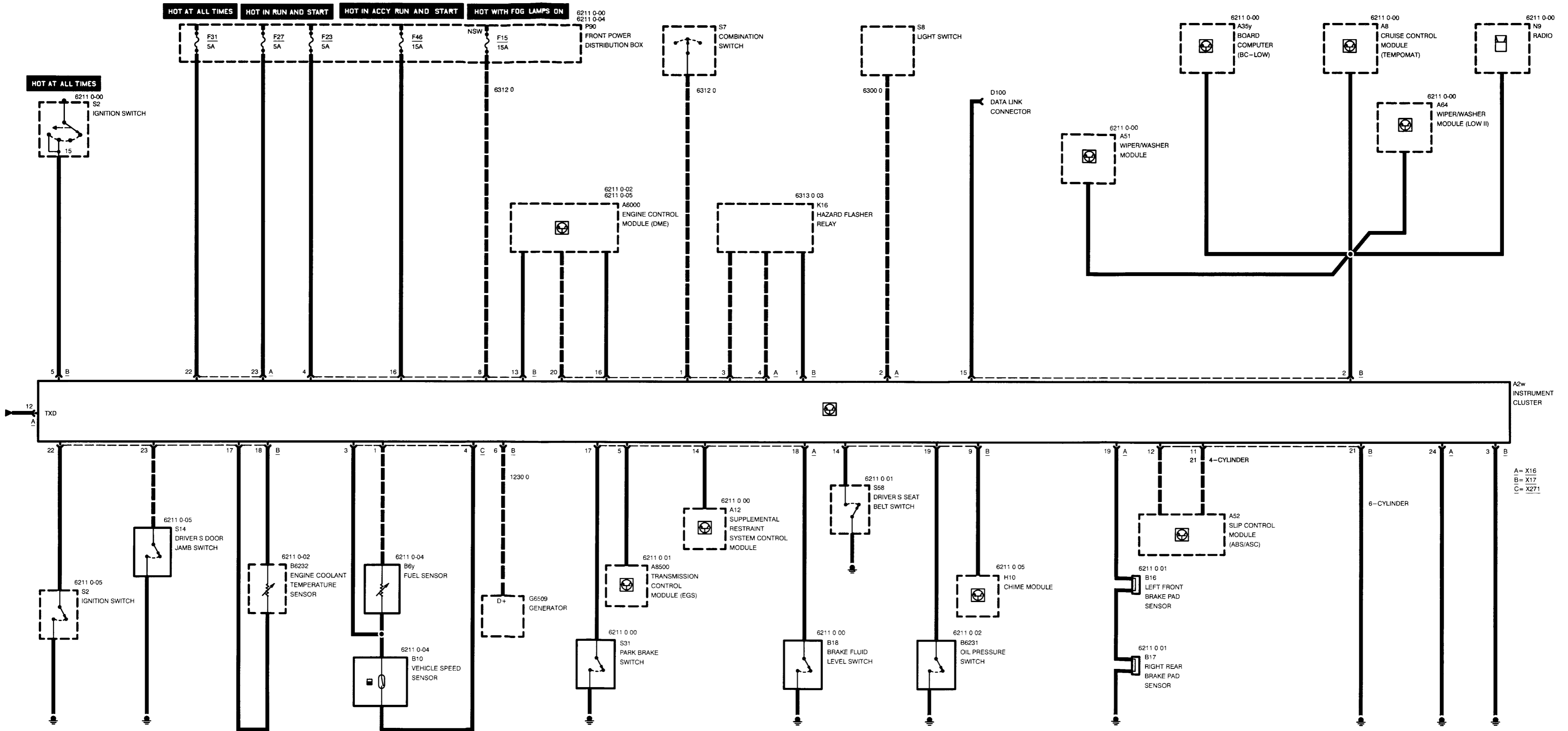




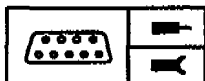
Z3

WINDSHIELD WASHER JET HEATERS





Z3



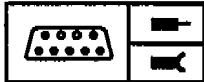
Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Light switch (dimmer)
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12	E/A	Diagnosis TxD signal	Data link connector
13		Not used	
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	"Check engine" indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21		Not used	
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

Z3



Pin Assignments

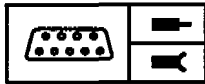
X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10		not used	
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS/ASC) (6-cylinder)
12	E	ASC signal	ASC control module
13	A	Ti-measurement signal (fuel consumption)	Engine control module (DME)
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distribution box, fuse 46
17	A	Coolant temperature sensor (-)	Coolant temperature sensor
18	E	Coolant temperature sensor (+)	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21	M	Ground (ASC)	Ground point (6-cylinder)
21	E	ABS warning lamp (ABS)	Slip control module (ABS/ASC) (4-cylinder)
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24		Not used	

E = Input, A = Output, M = Ground



Z3

**Pin Assignments**

Pin	Type	Description/Function	Connection
25		Not used	
26		Not used	

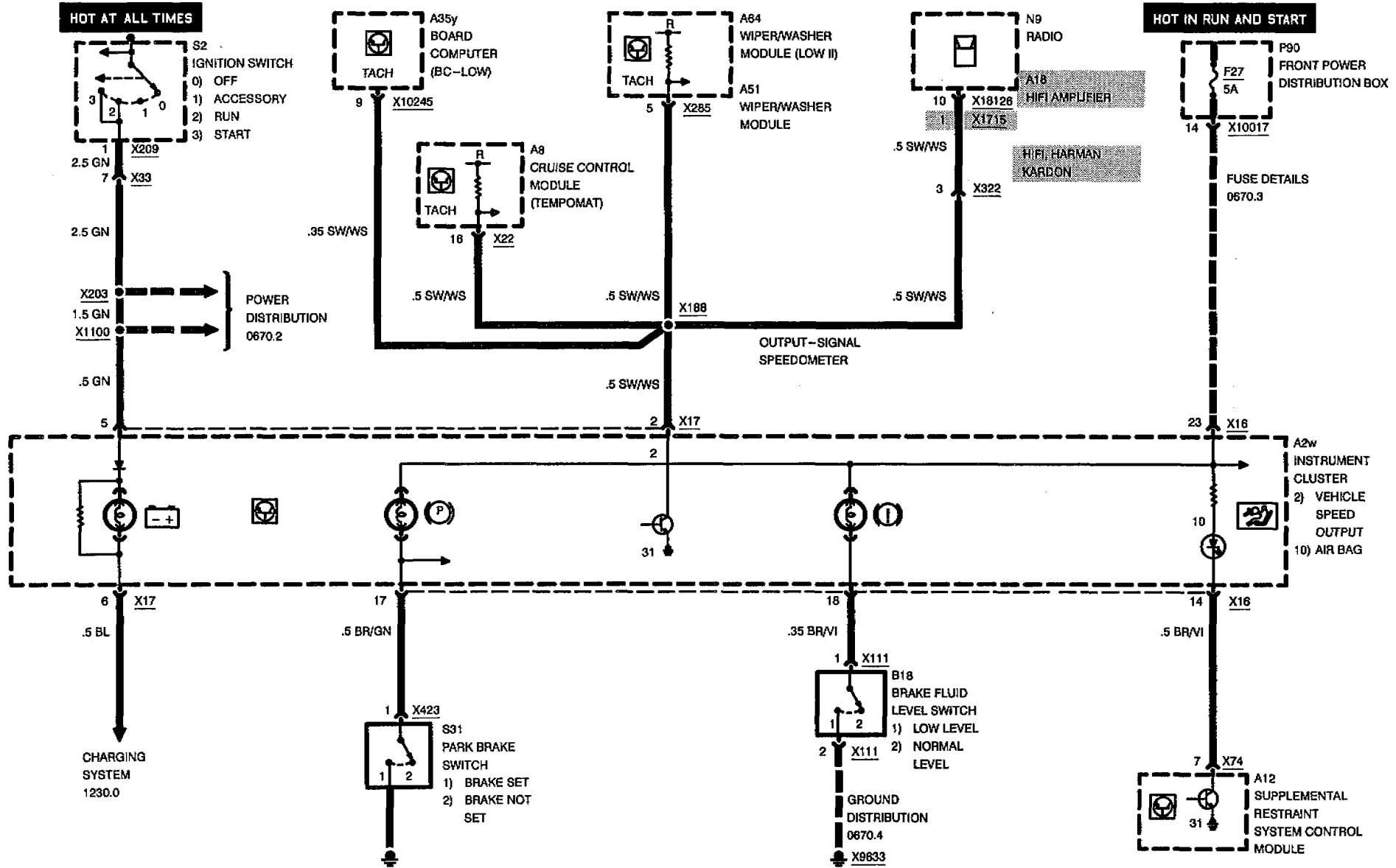
X271

Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensor and vehicle speed sensor	Fuel tank sensor and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

INSTRUMENT CLUSTER

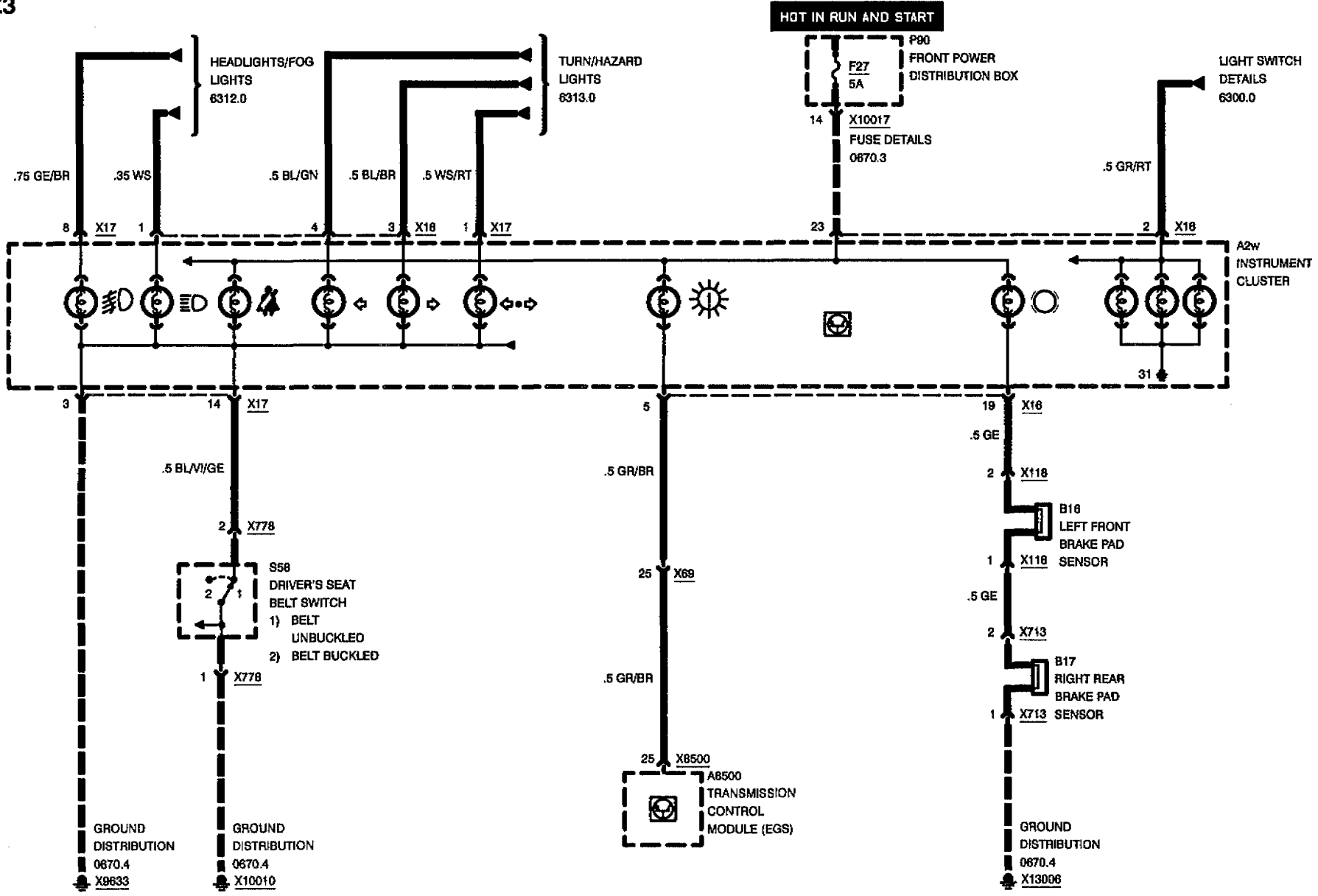
INDICATORS





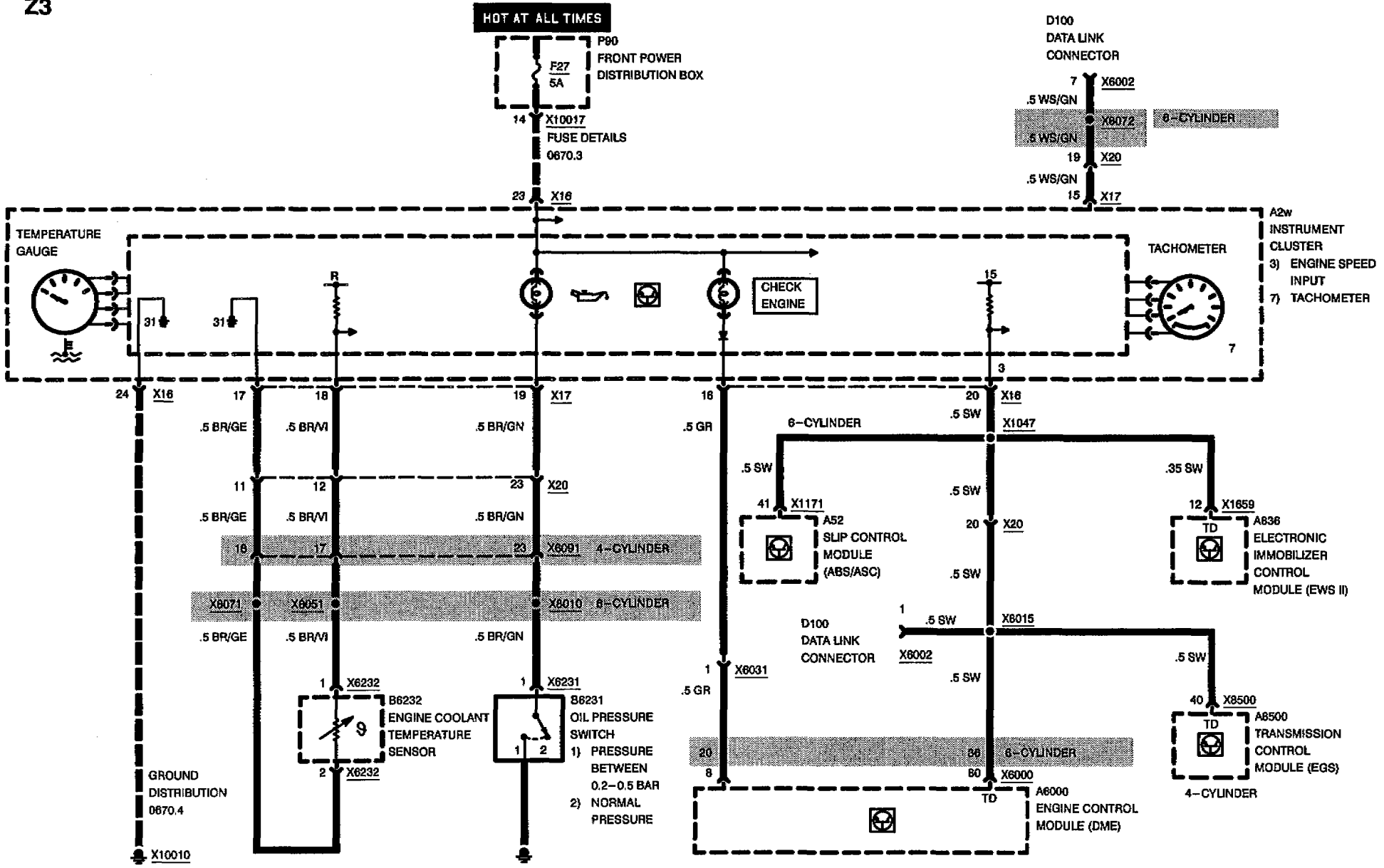
INSTRUMENT CLUSTER INDICATORS

Z3



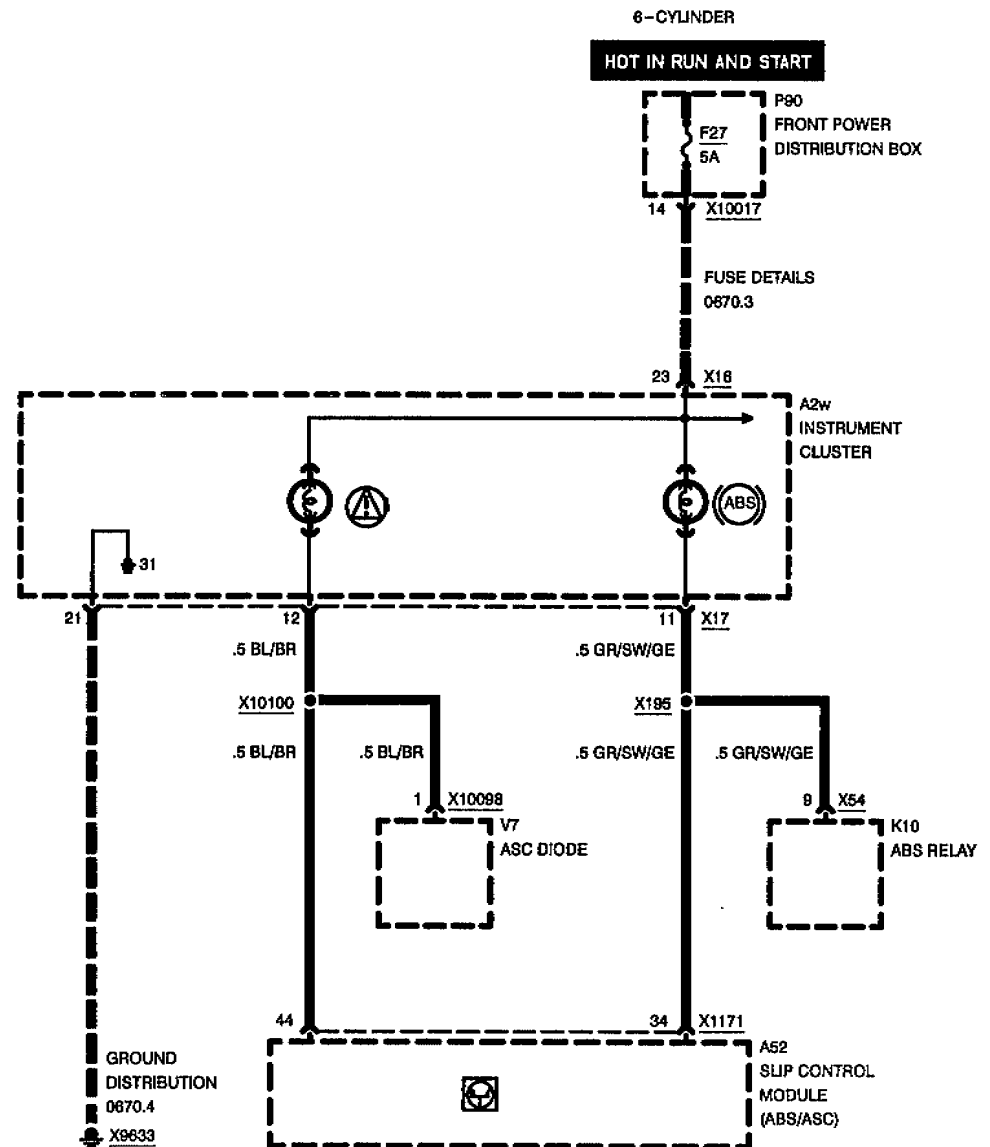
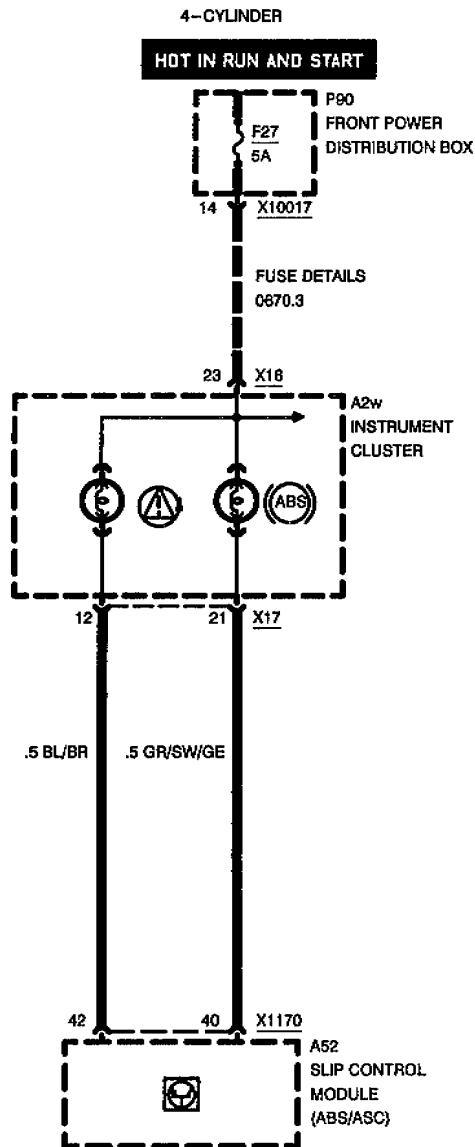
09/97 — 6211.0-01 — 1998

INSTRUMENT CLUSTER INDICATORS



INSTRUMENT CLUSTER

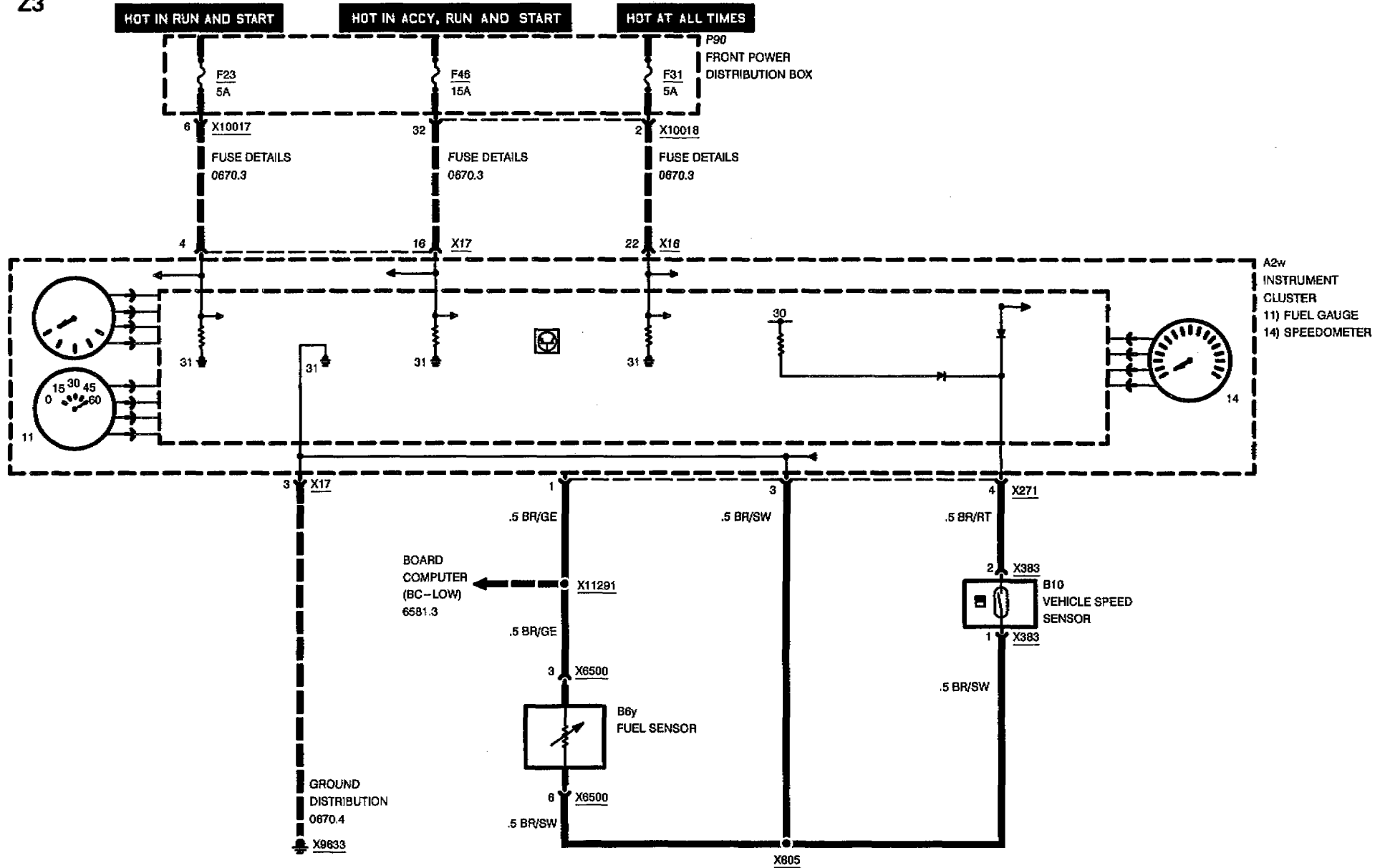
INSTRUMENT CLUSTER – ABS AND ASC INDICATORS



INSTRUMENT CLUSTER

INDICATORS

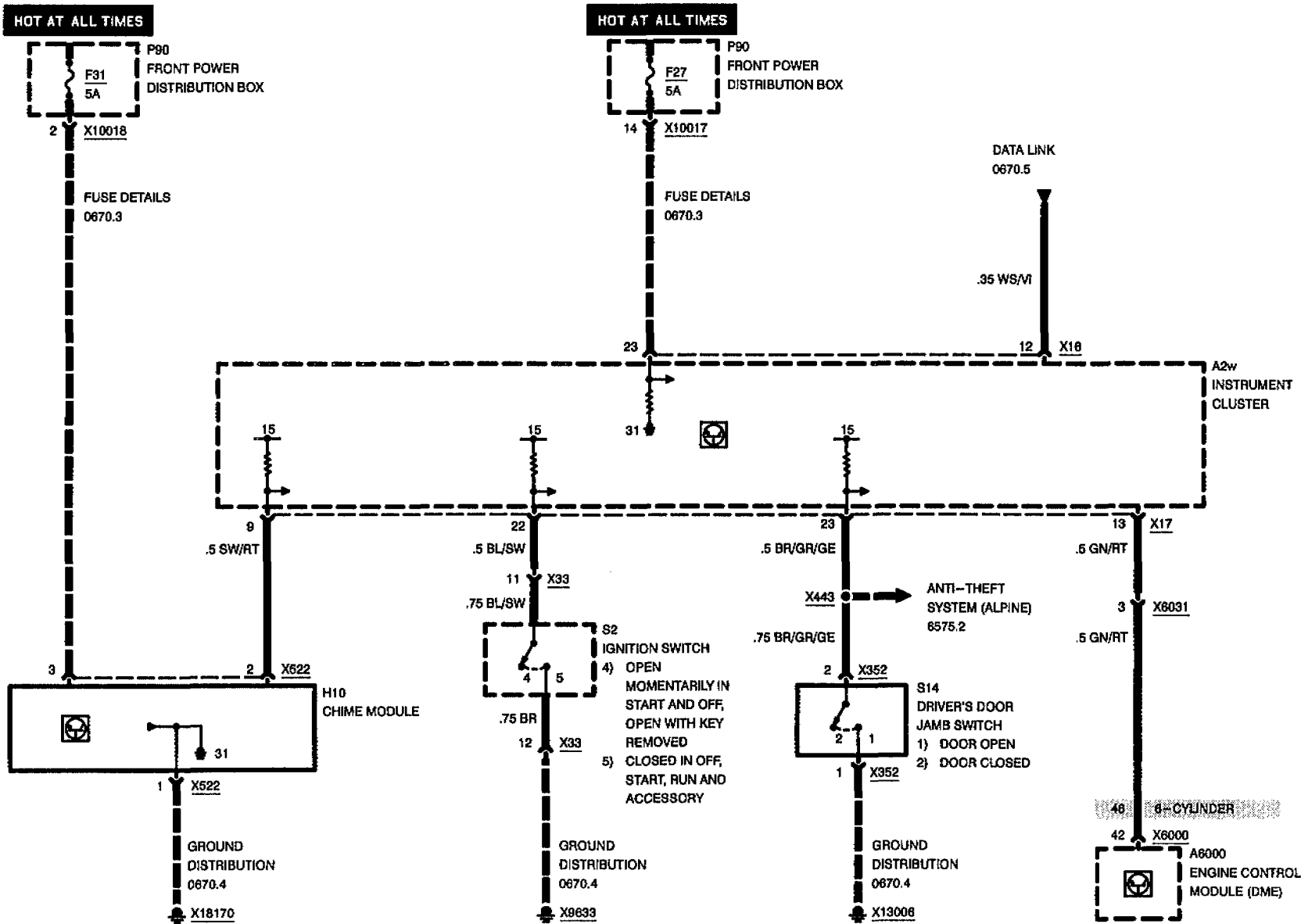
Z3





INSTRUMENT CLUSTER

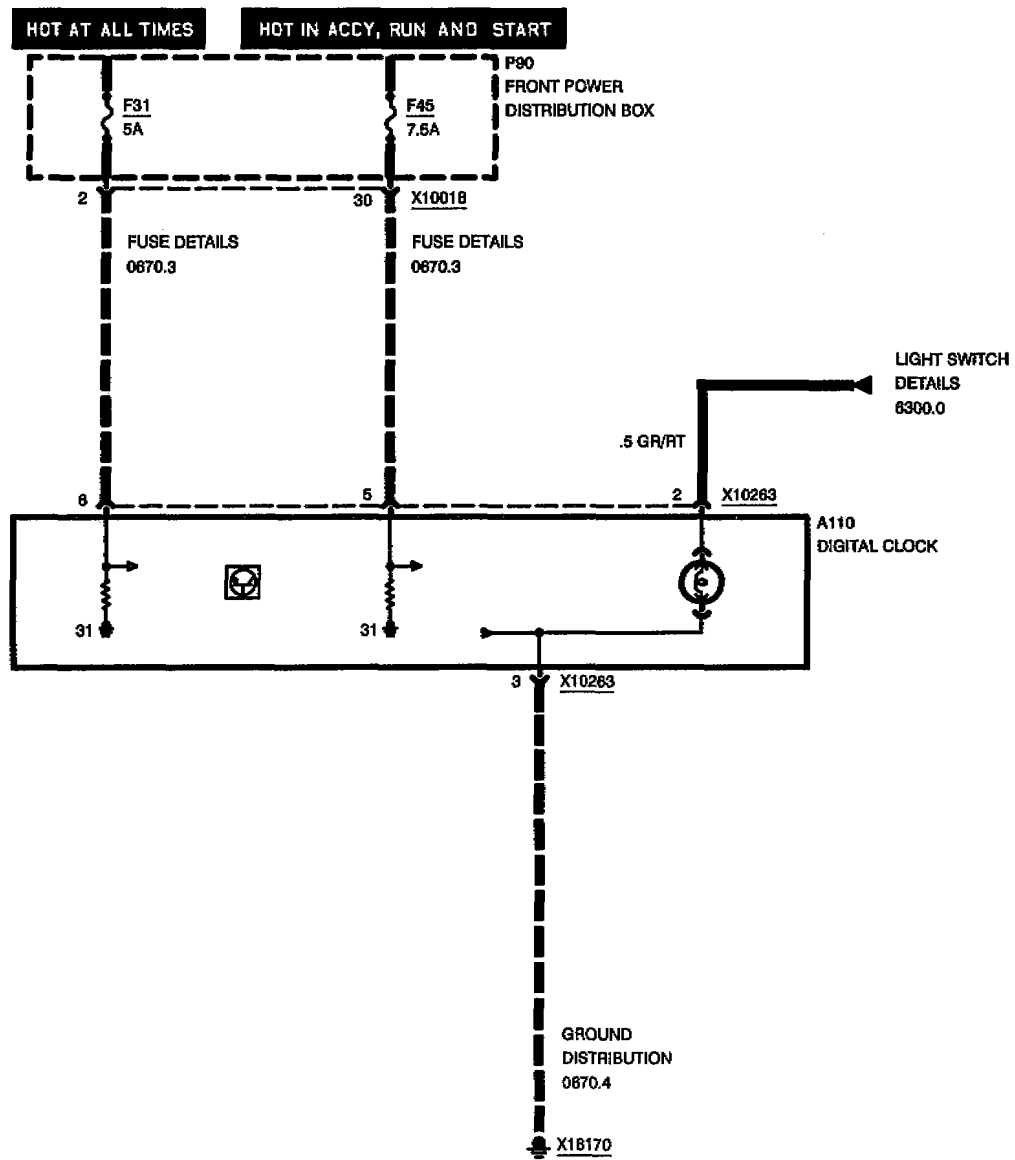
Z3



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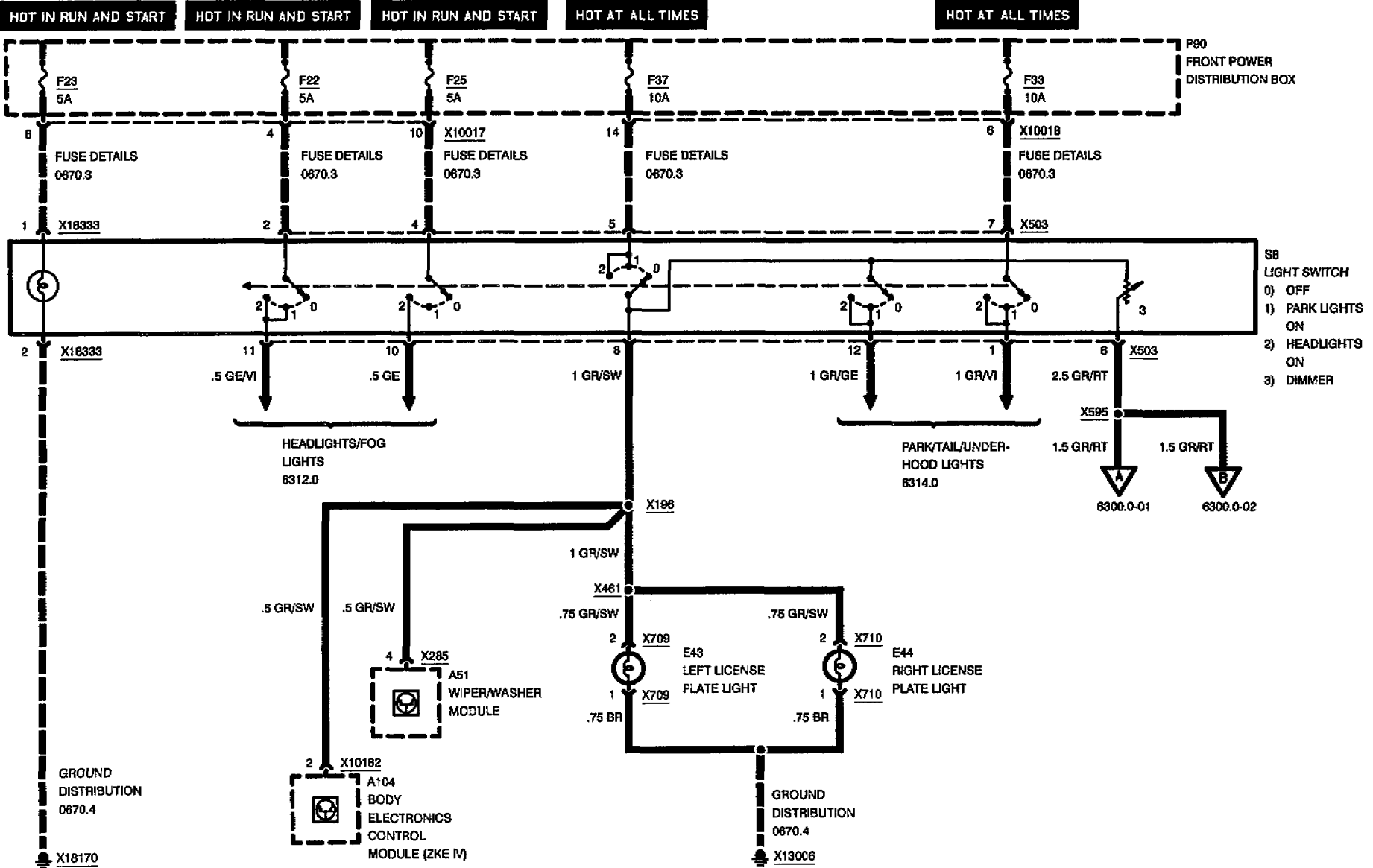
6211.0-05

1998

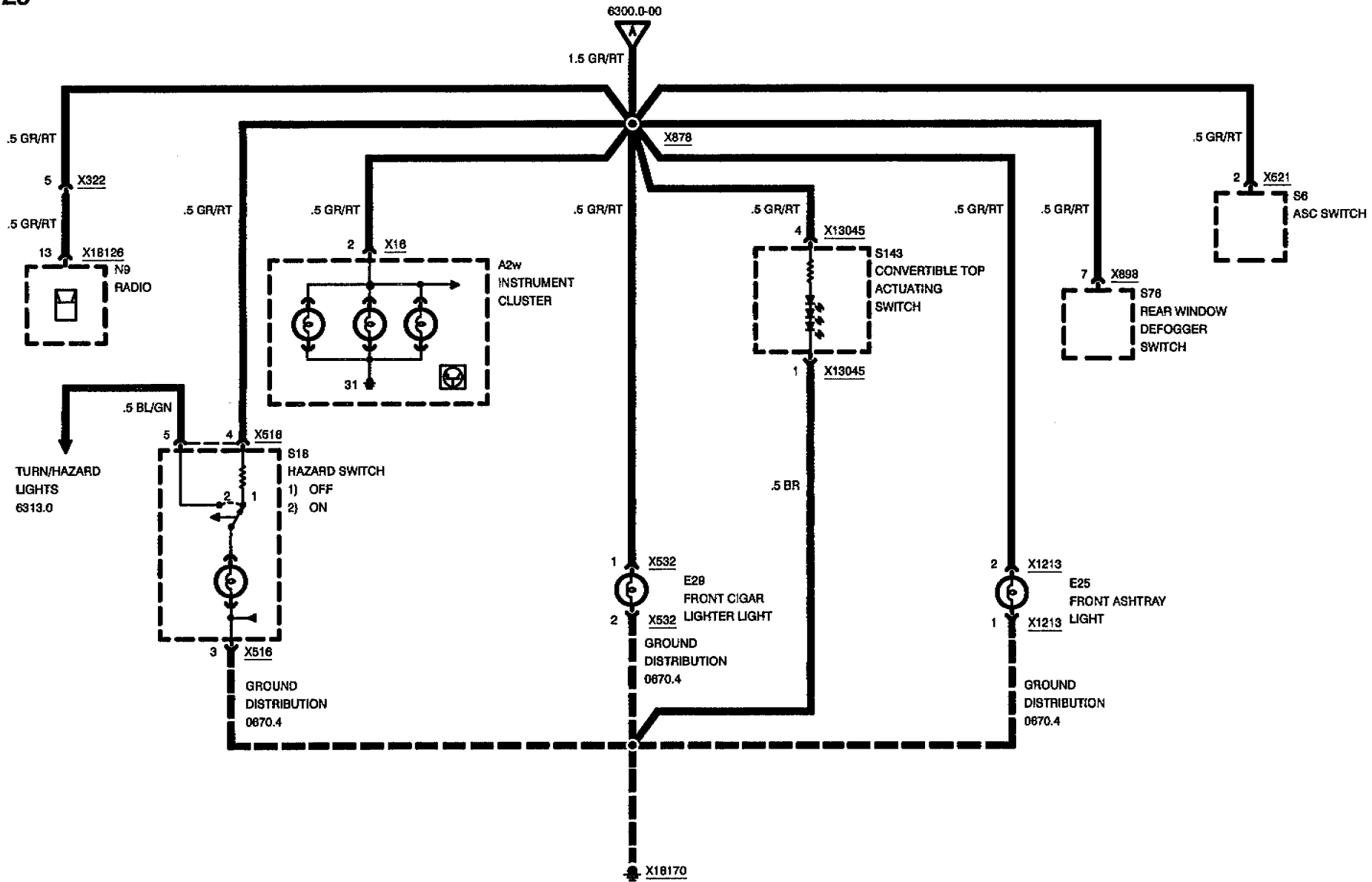


LIGHT SWITCH DETAILS

Z3

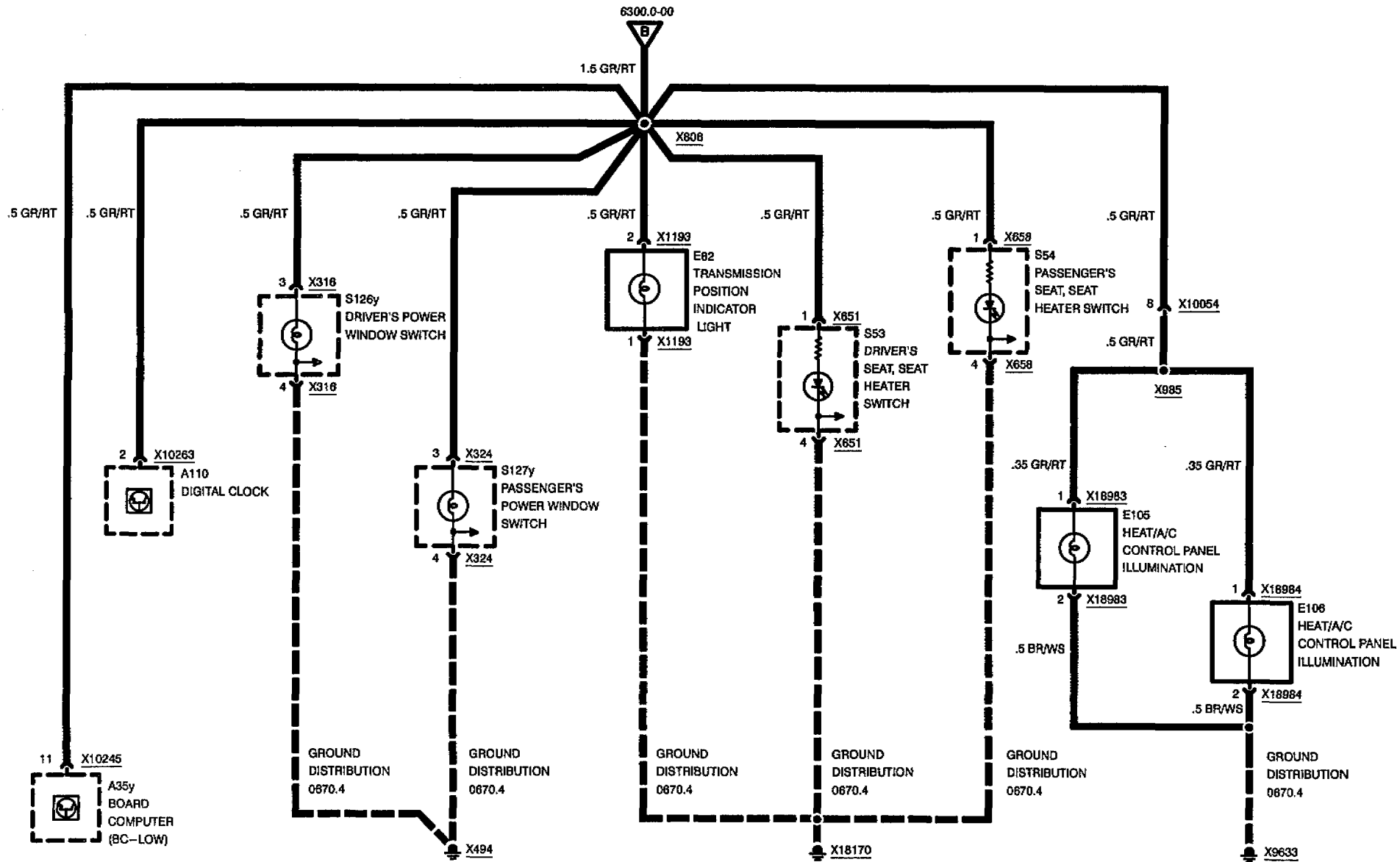


LIGHT SWITCH DETAILS



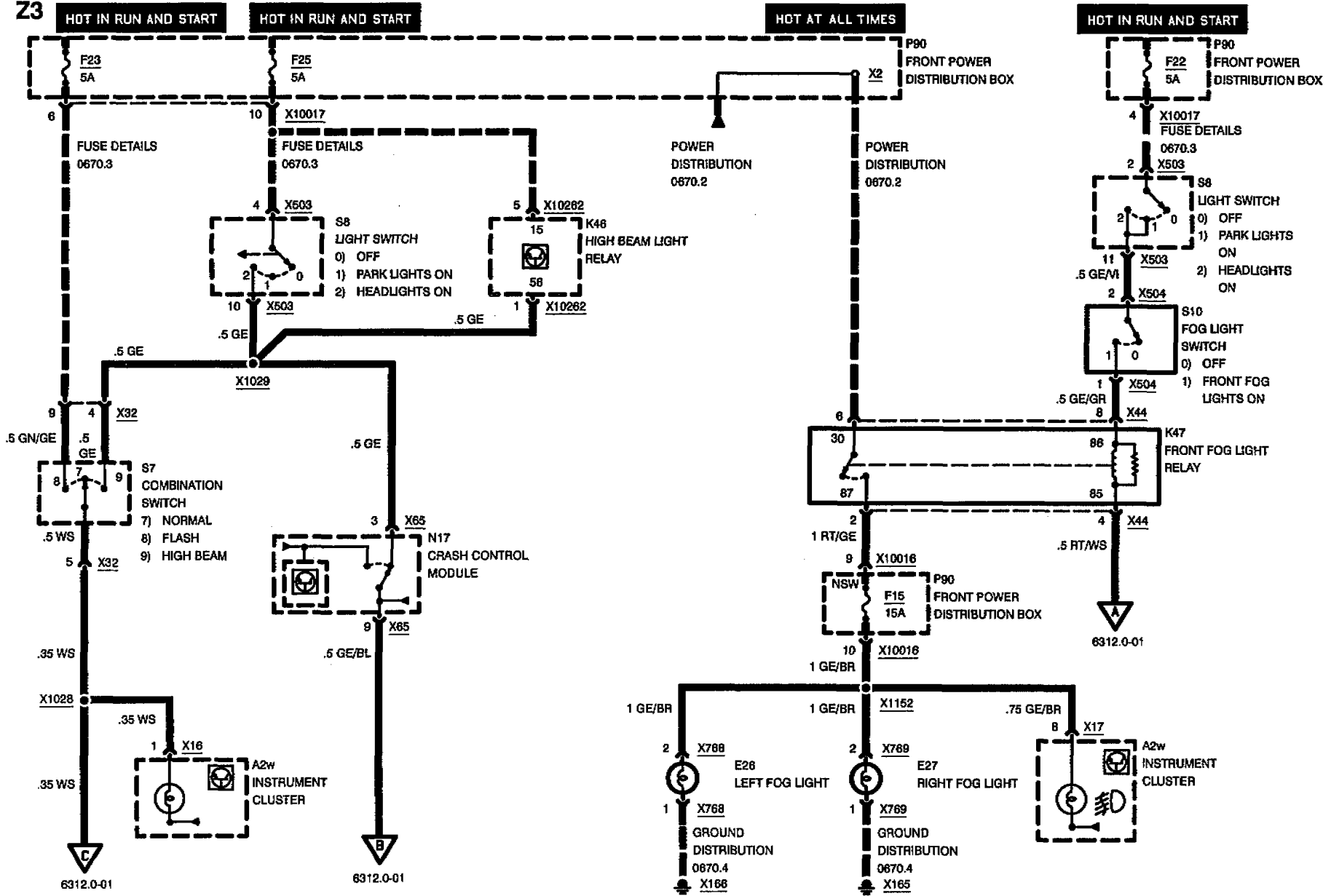


LIGHT SWITCH DETAILS

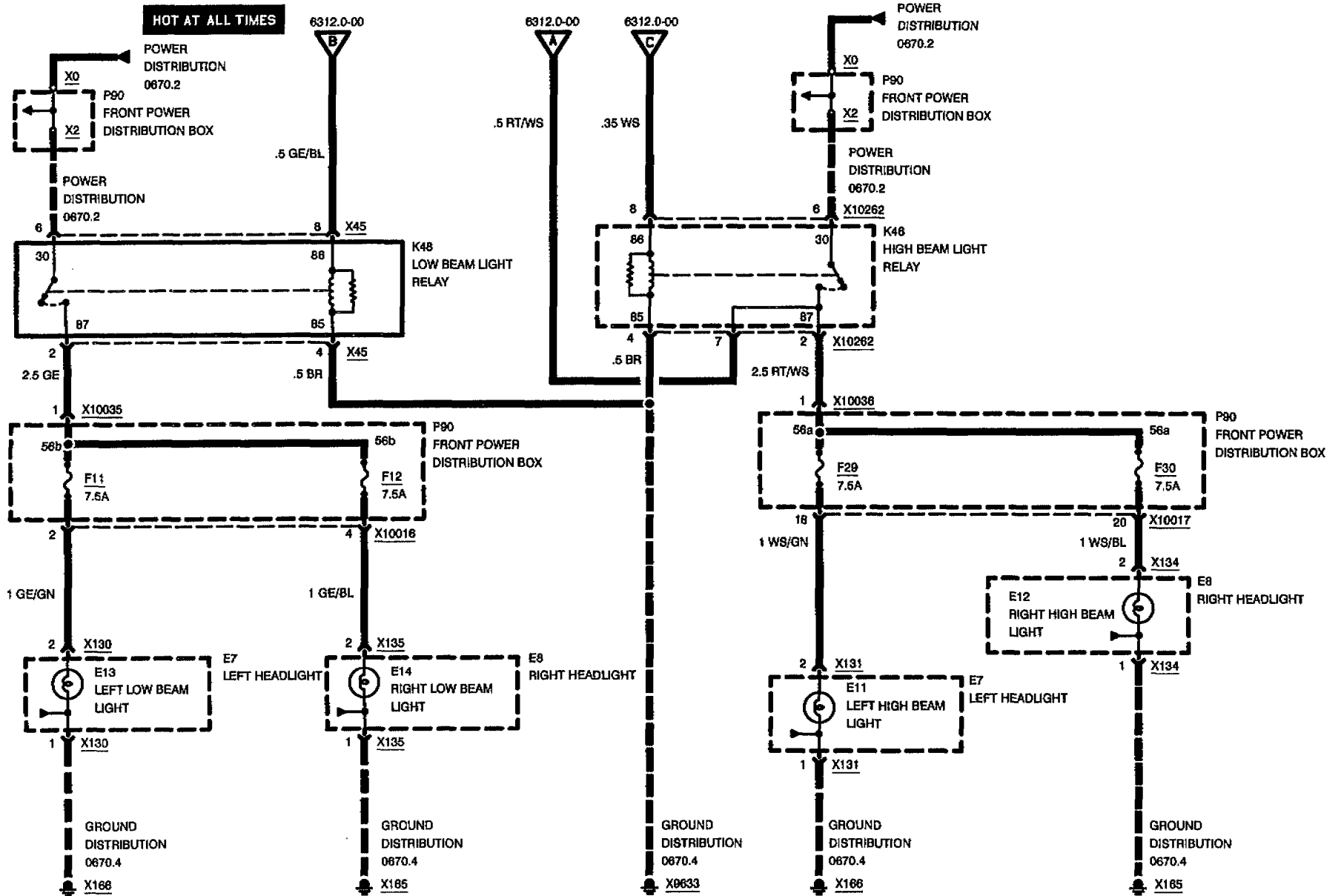


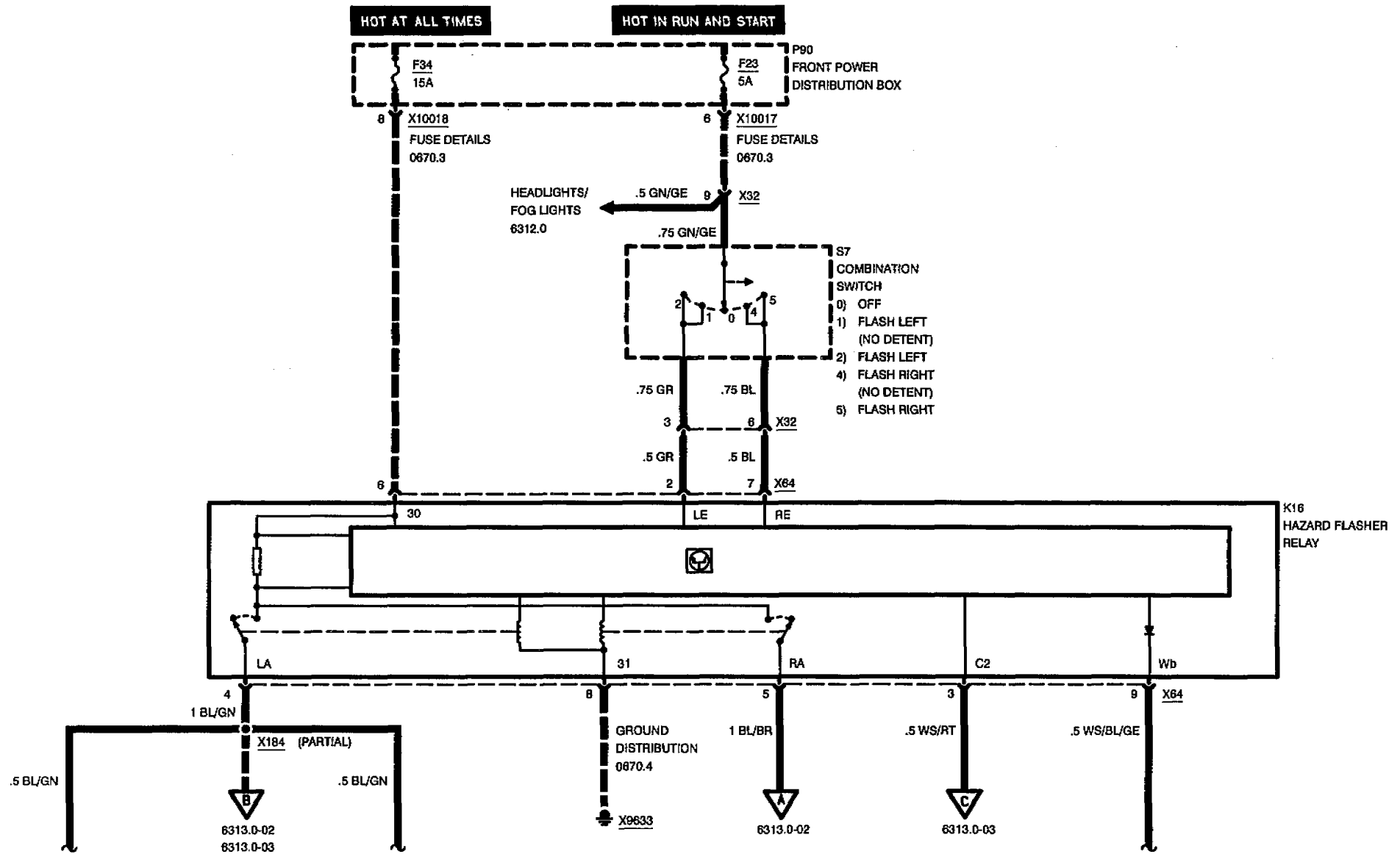
HEADLIGHTS/FOG LIGHTS

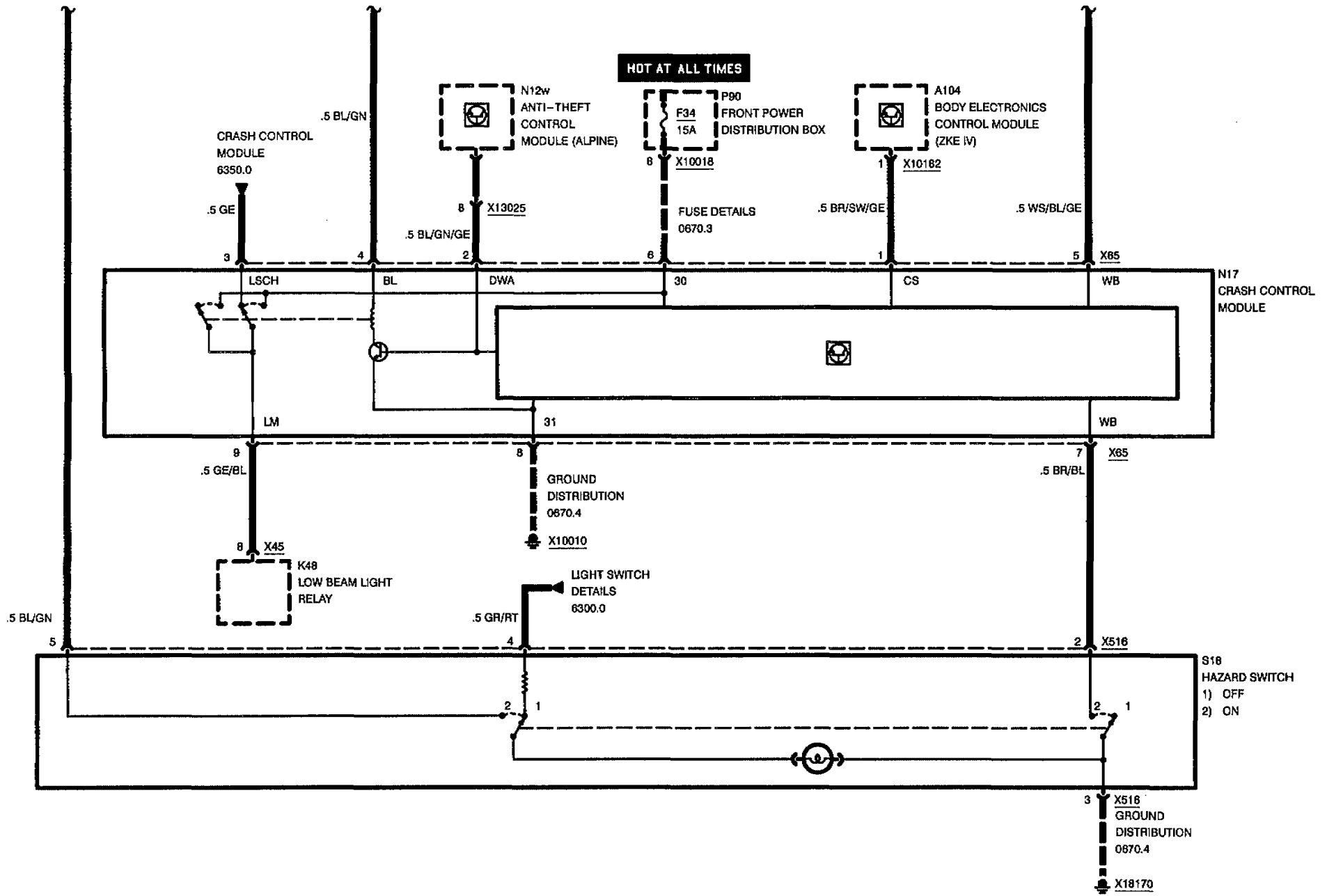
Z3



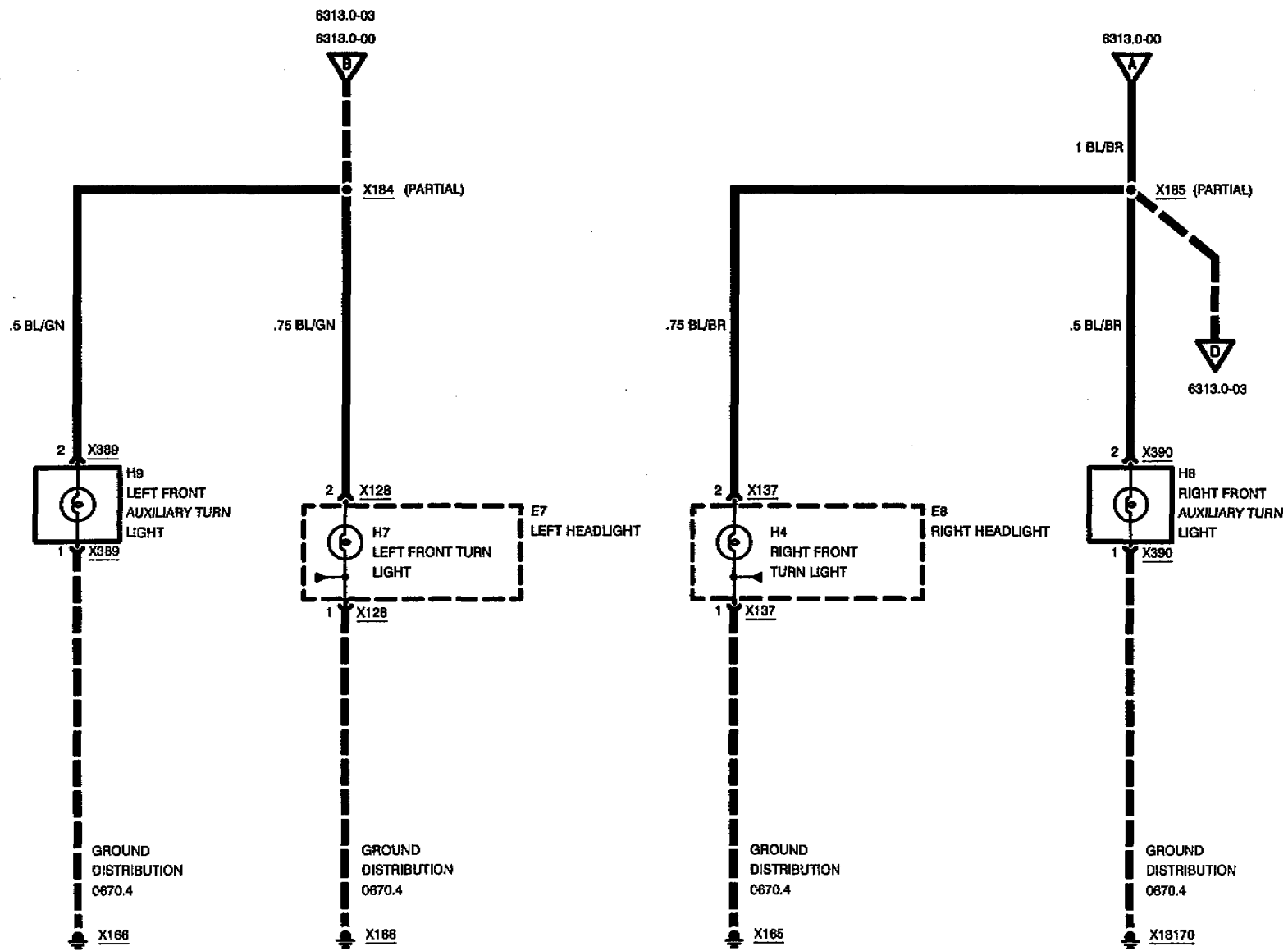
HEADLIGHTS/FOG LIGHTS





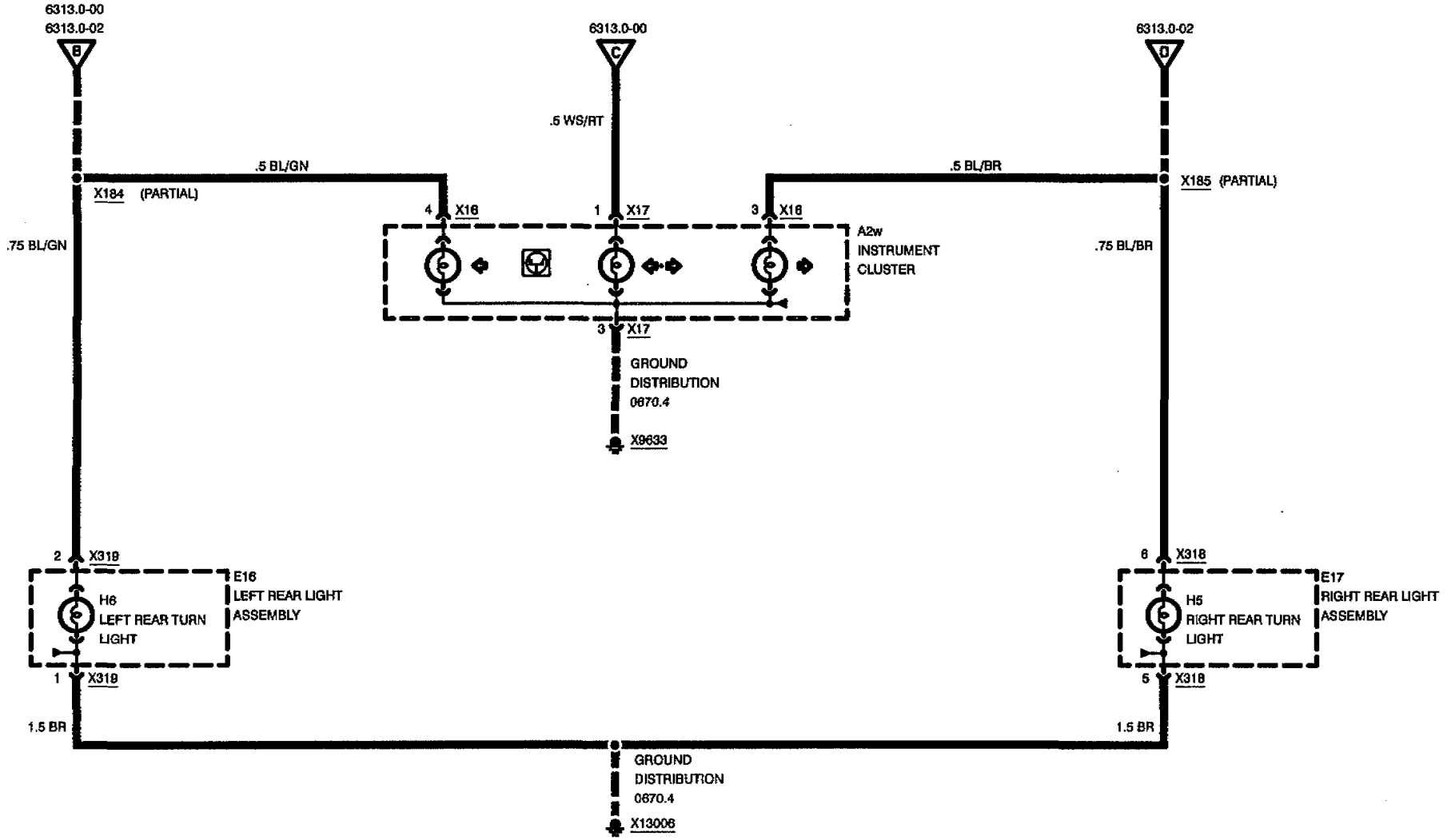


TURN/HAZARD LIGHTS





TURN/HAZARD LIGHTS



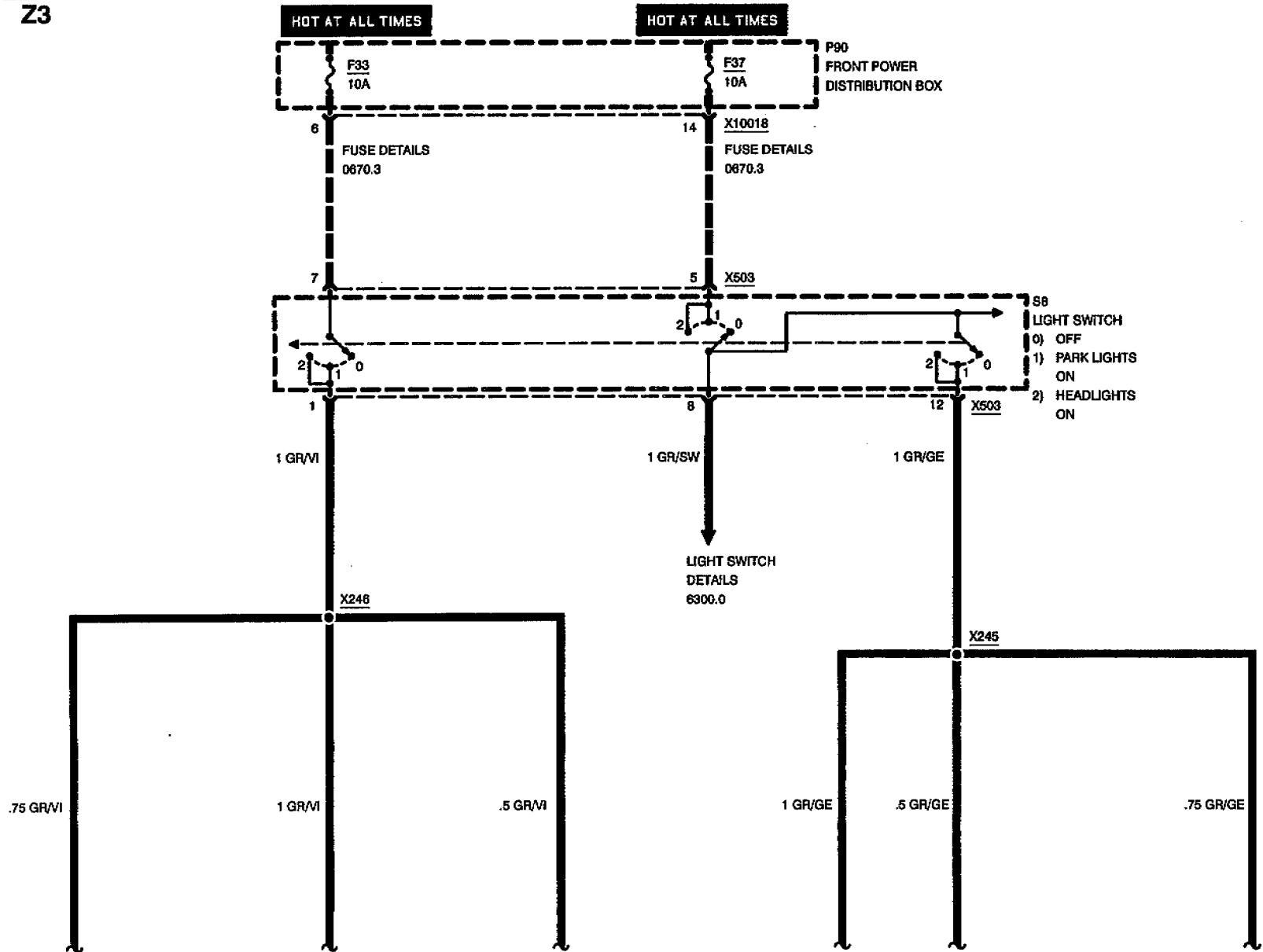
09/97

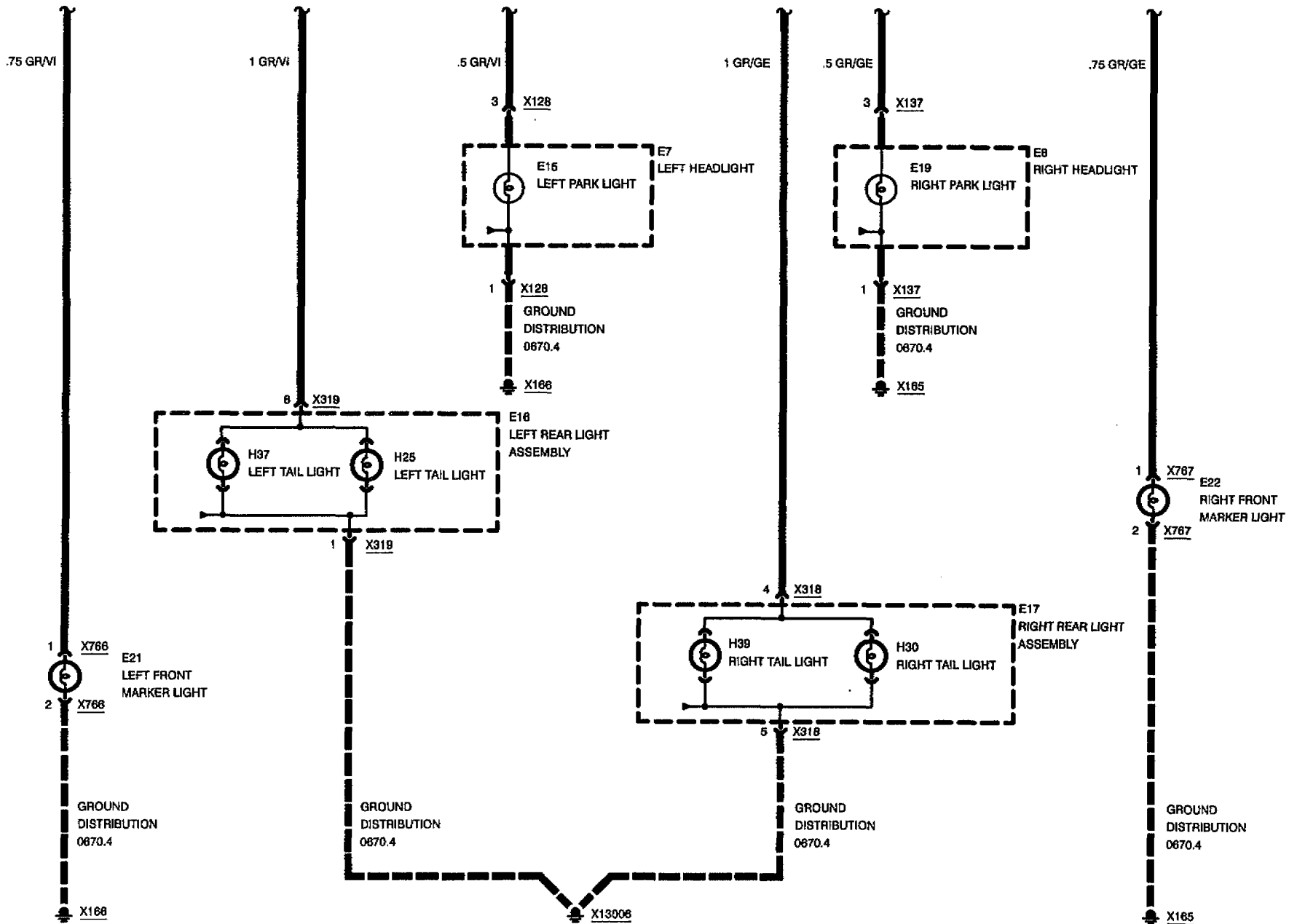
6313.0-03

1998

PARK/TAIL/UNDERHOOD LIGHTS

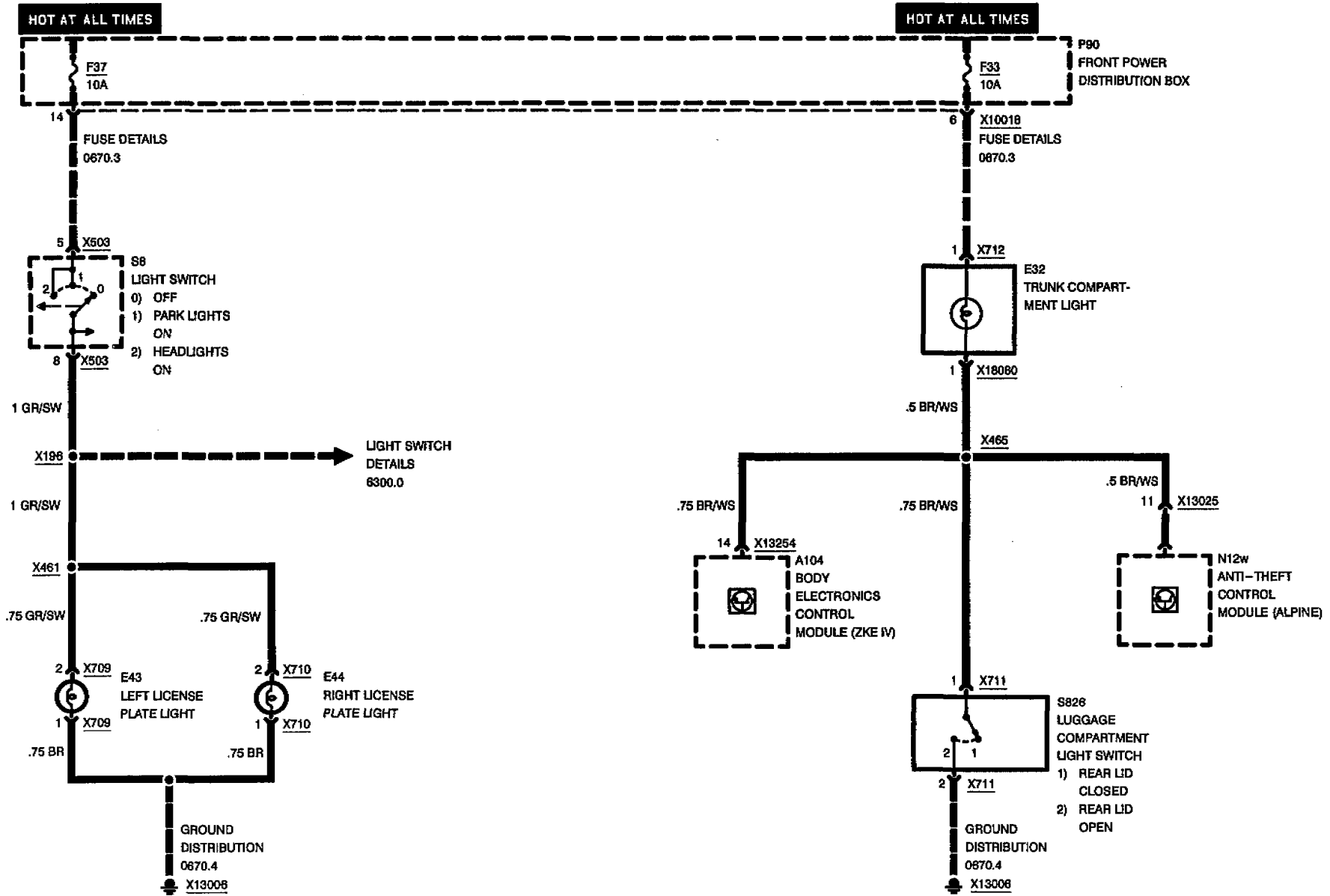
Z3



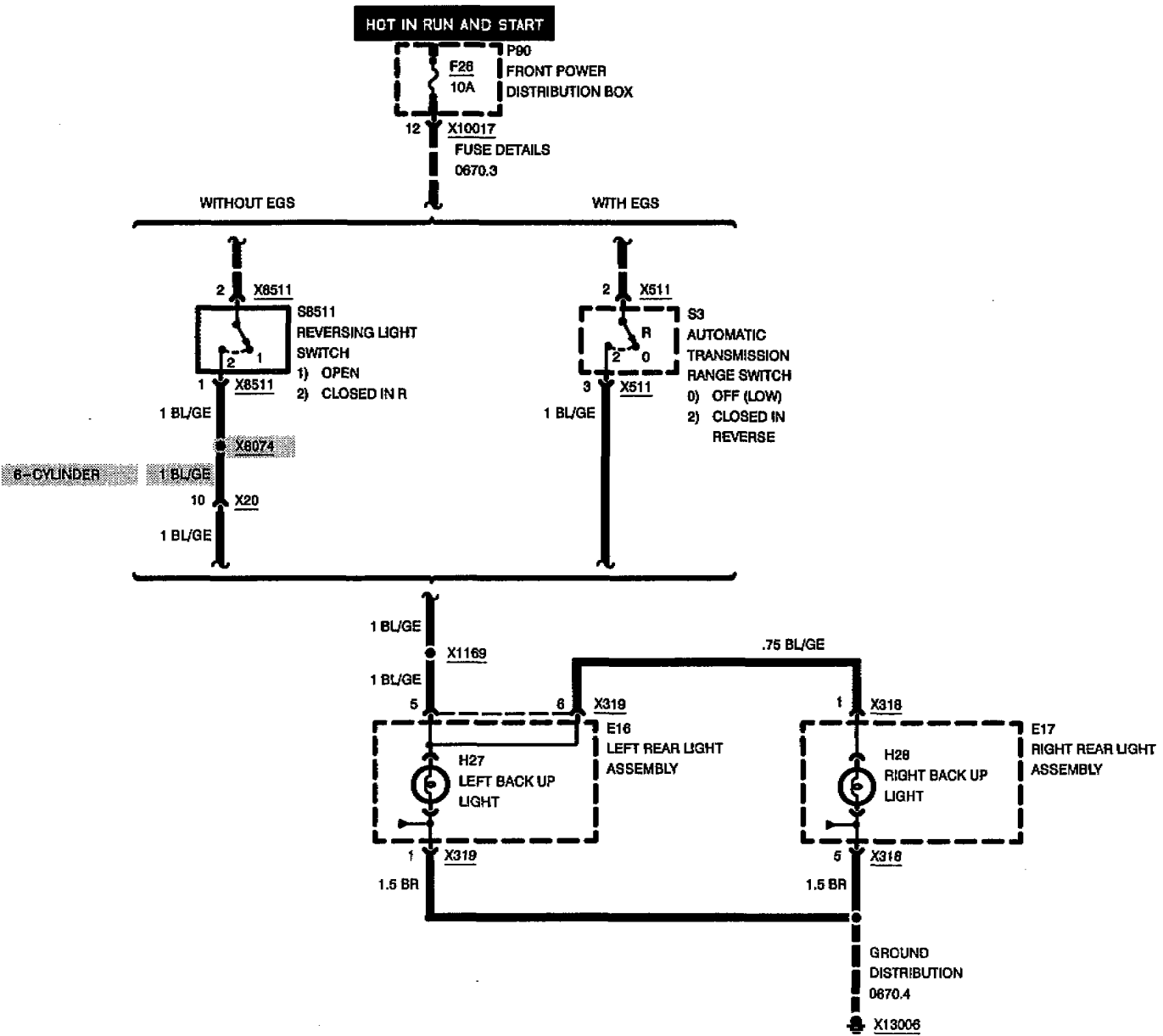


LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

Z3



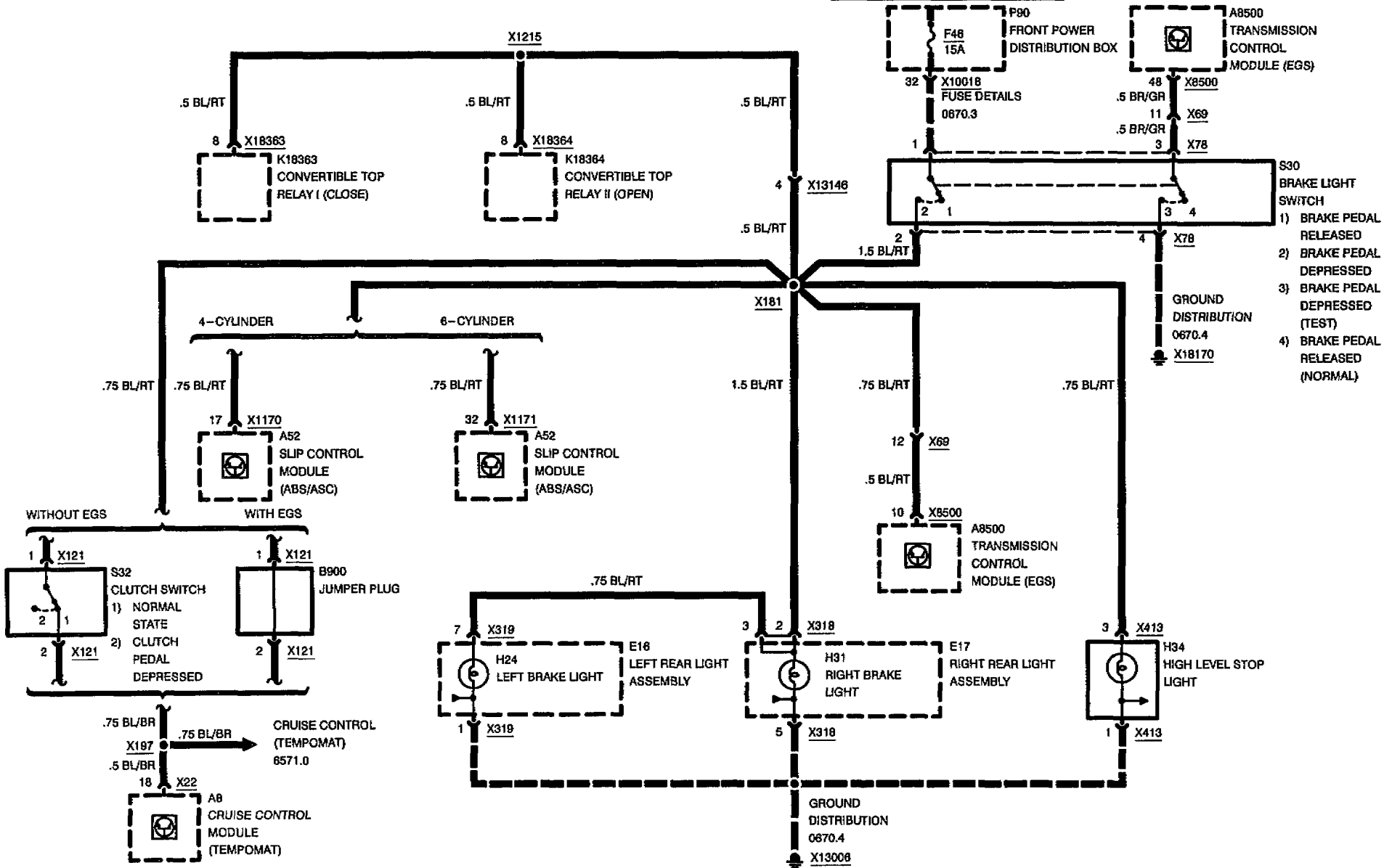
BACK UP LIGHTS



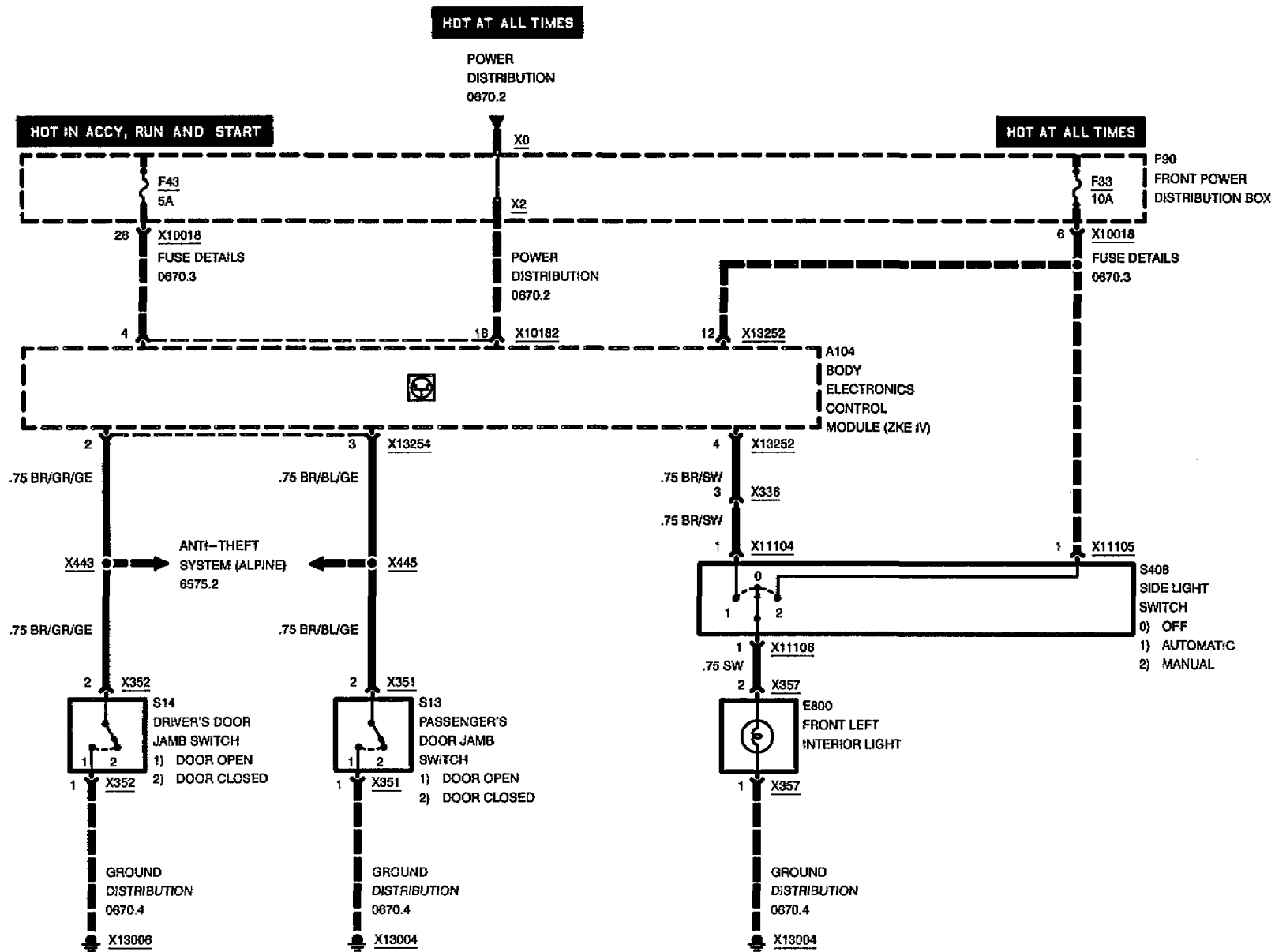
BRAKE LIGHTS

Z3

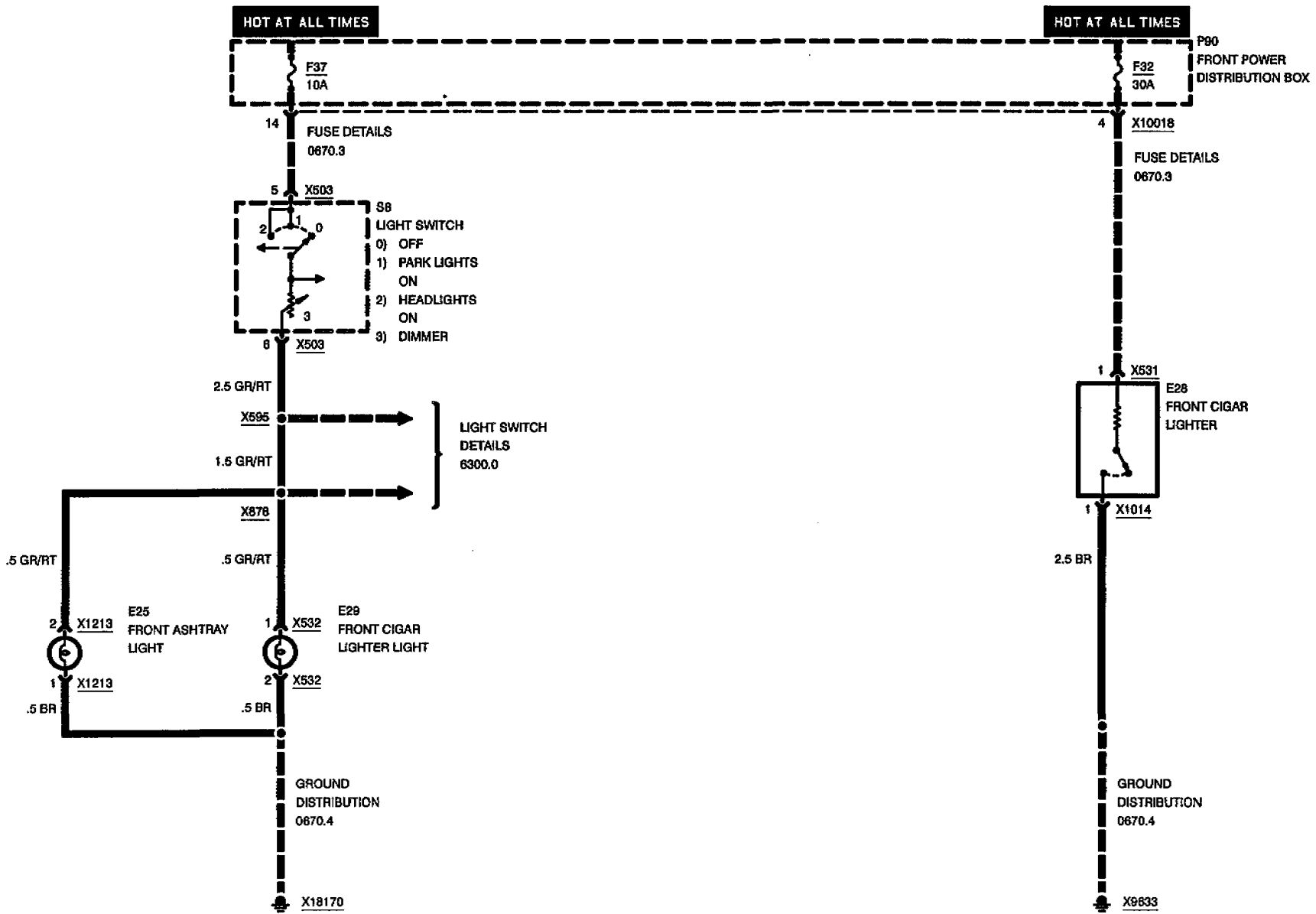
HOT IN ACCY, RUN AND START



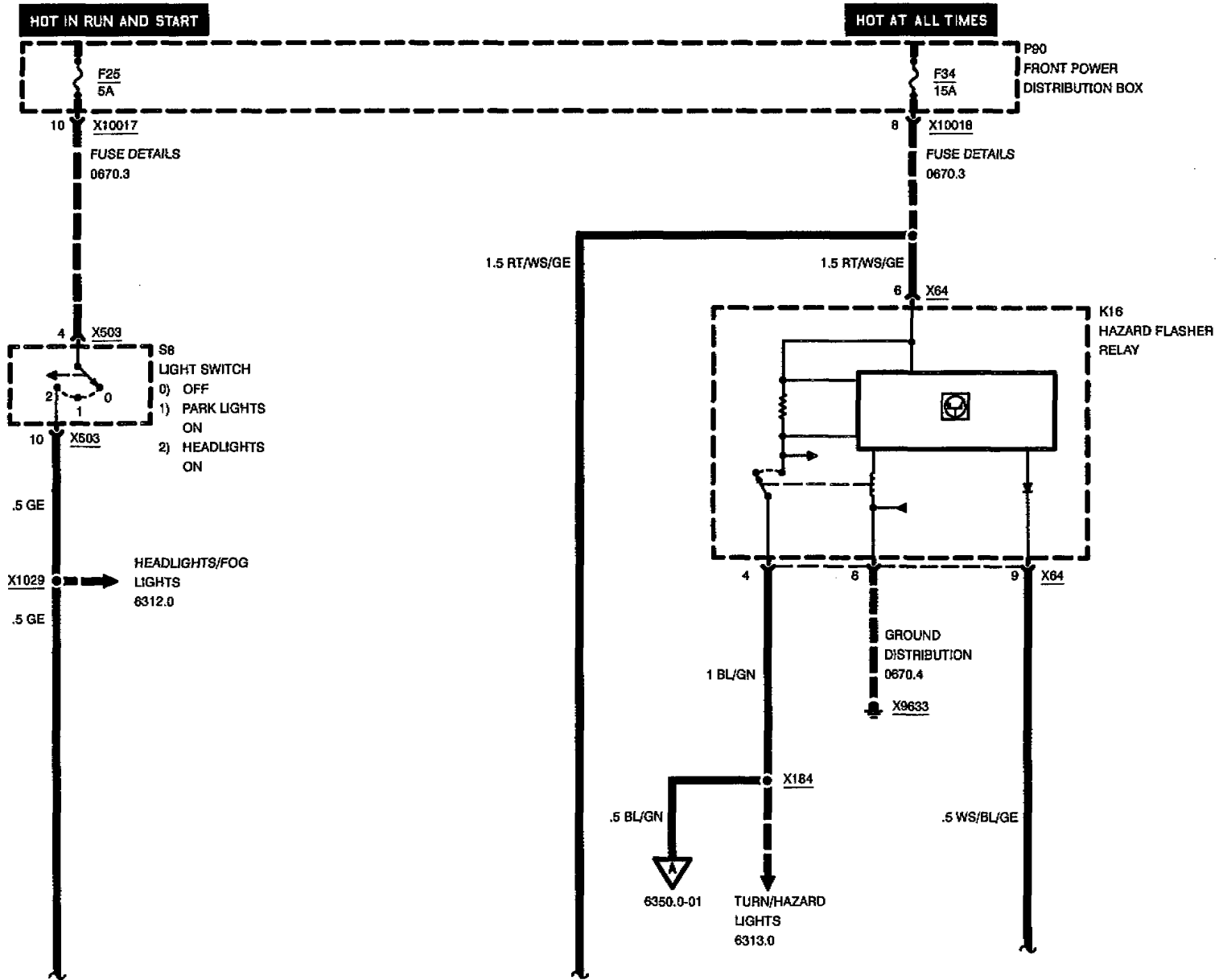
INTERIOR LIGHTS

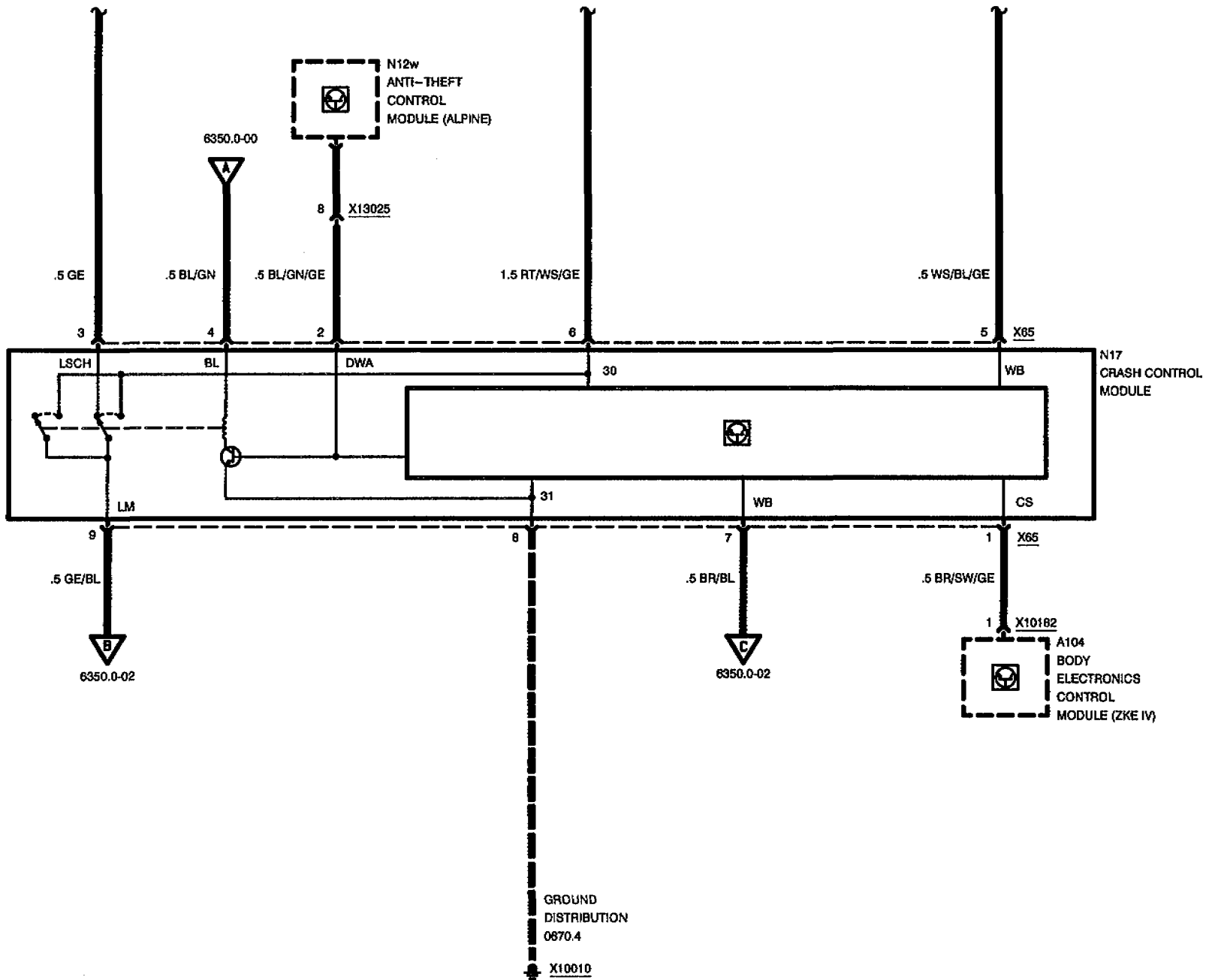


INTERIOR ACCESSORIES

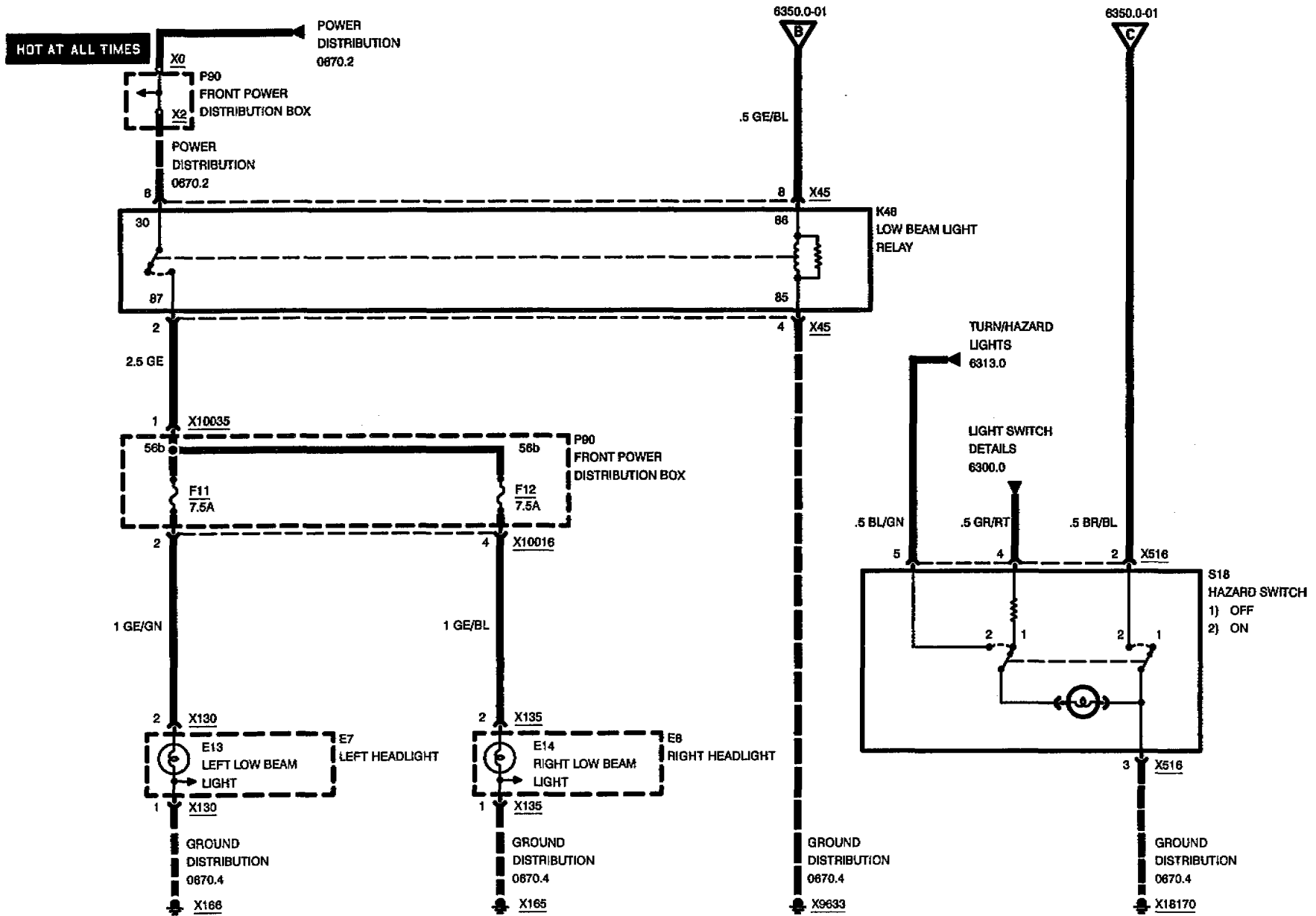


CRASH CONTROL MODULE





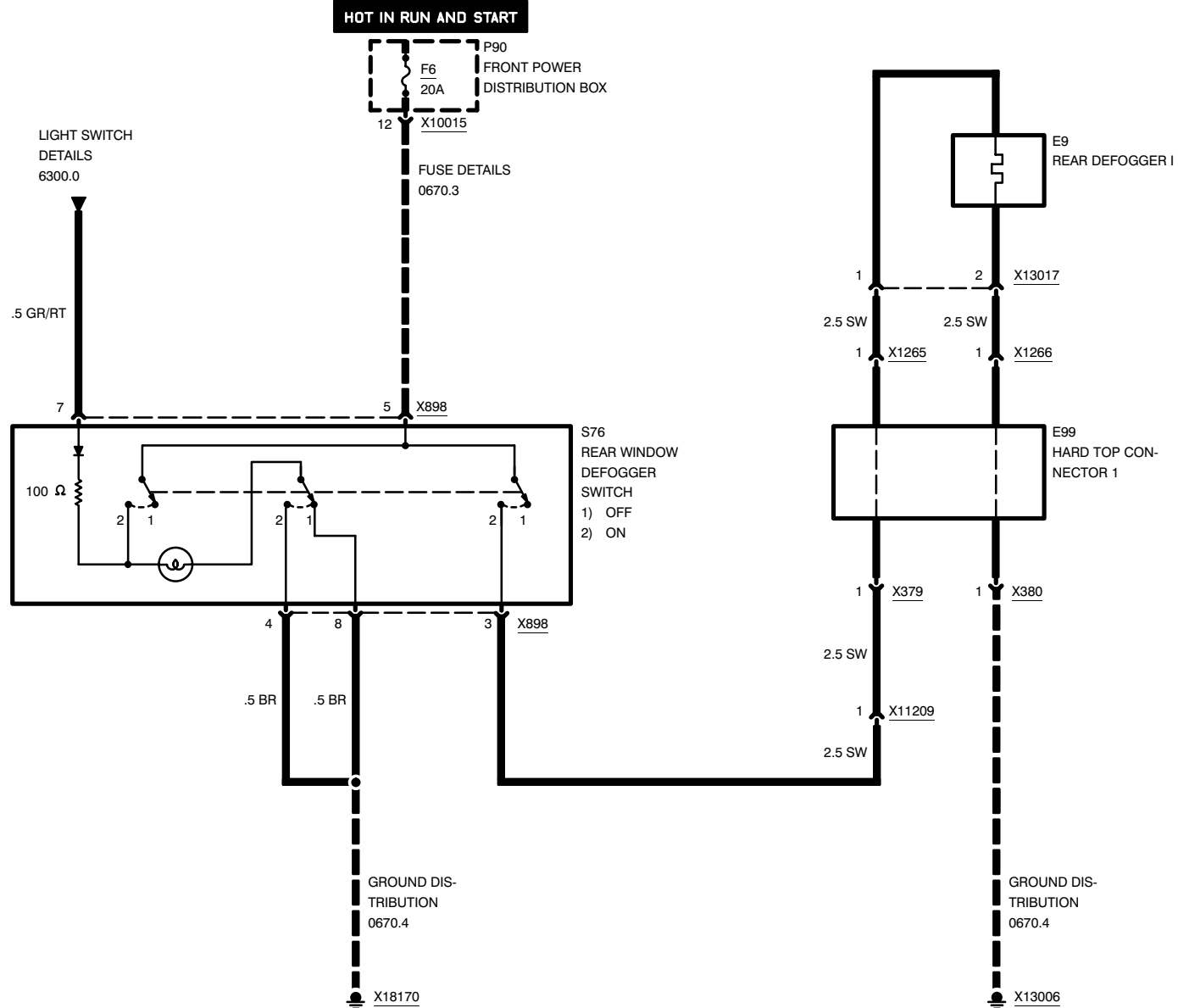
CRASH CONTROL MODULE





REAR WINDOW DEFOGGER

EARLY PRODUCTION



03/98

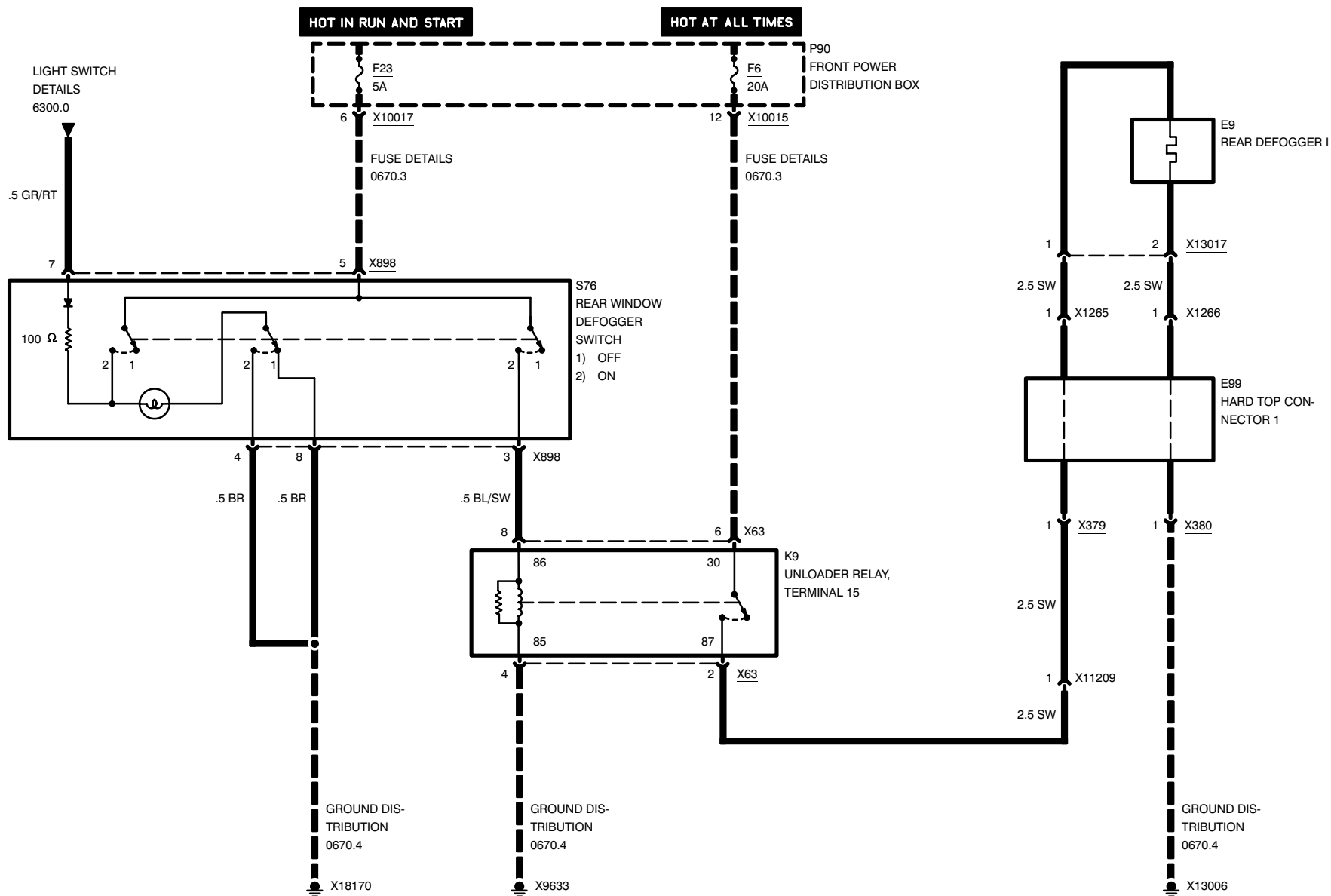
6424.0-00

1998



REAR WINDOW DEFOGGER

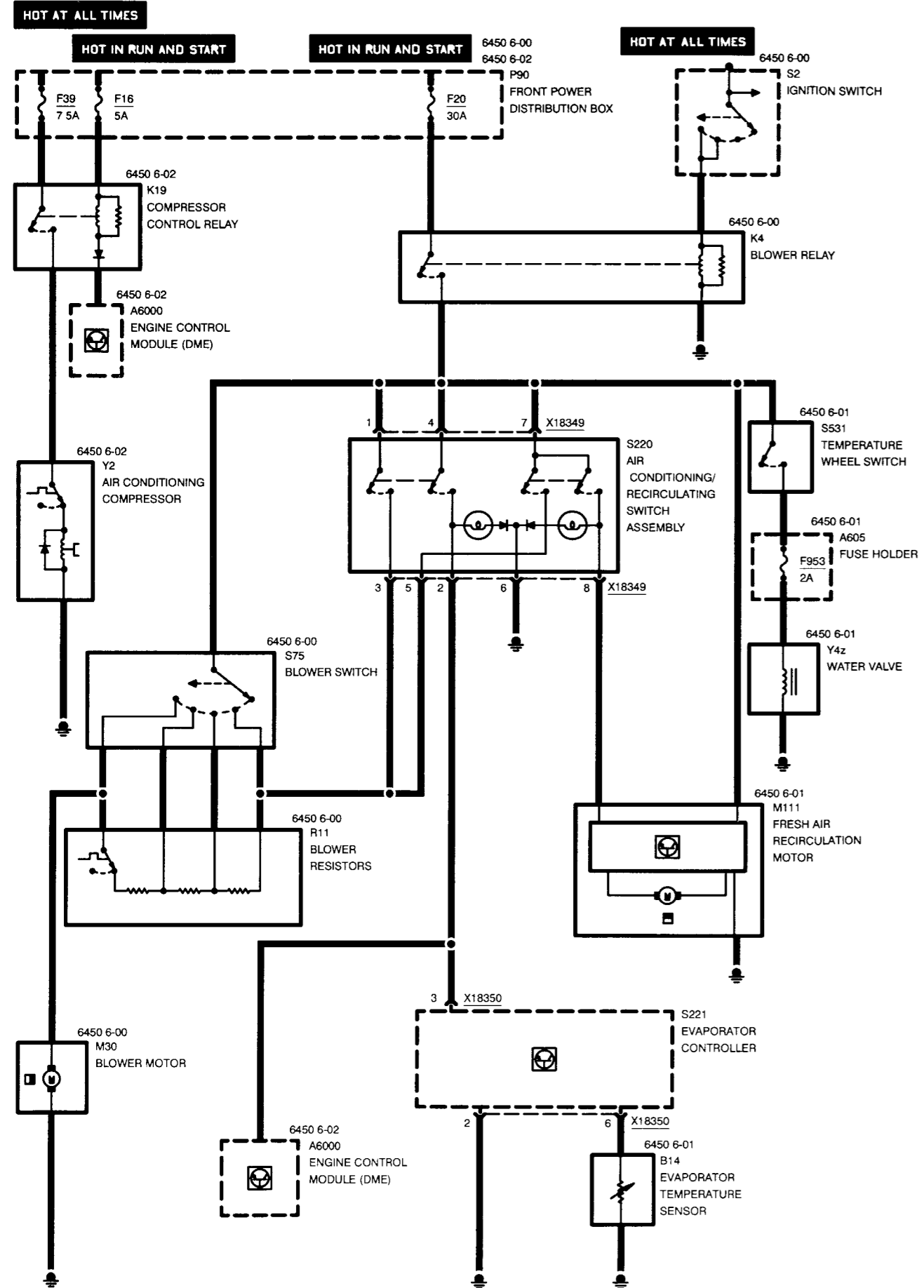
LATE PRODUCTION



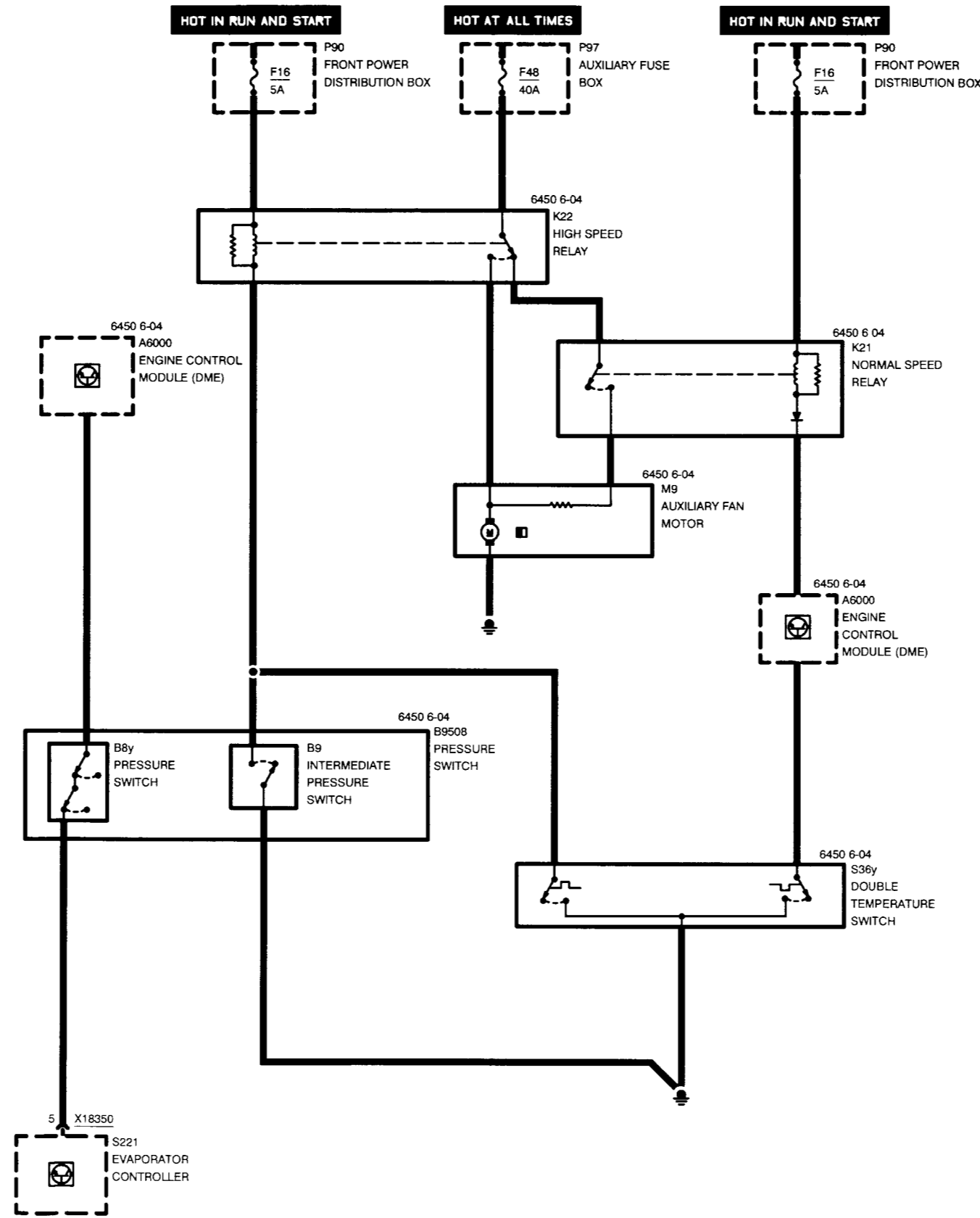
03/98

6424.0-01

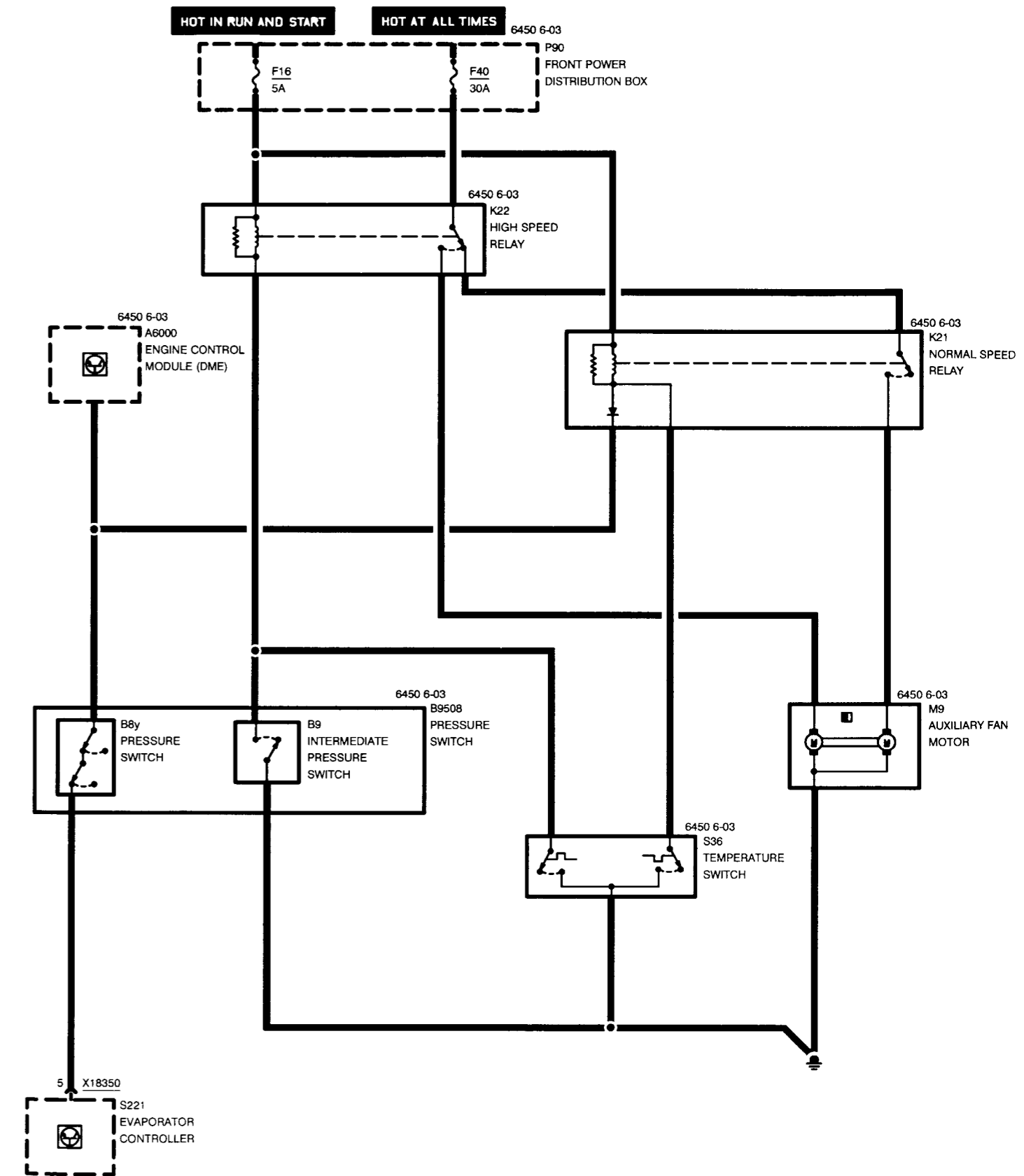
1998



AUXILIARY FAN - 4-CYLINDER

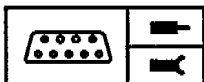


AUXILIARY FAN - 6-CYLINDER





Z3



Pin Assignments

X18349	8 Pins, black
X18350	6 Pins, black

X18349

Pin	Type	Description/Function	Connection
1	E	Terminal 15	Heating blower relay
2	A	Activate compressor clutch	Engine control module (DME)
3	A	Blower level 1 (air conditioning)	Blower resistor
4	E	Terminal 15	Heating blower relay
5	A	Blower level 1 (air-recirculation)	Blower resistor
6	M	Ground for function lights	Ground point
7	E	Terminal 15	Heating blower relay
8	A	Activate fresh air-recirculation	Fresh air-recirculation motor

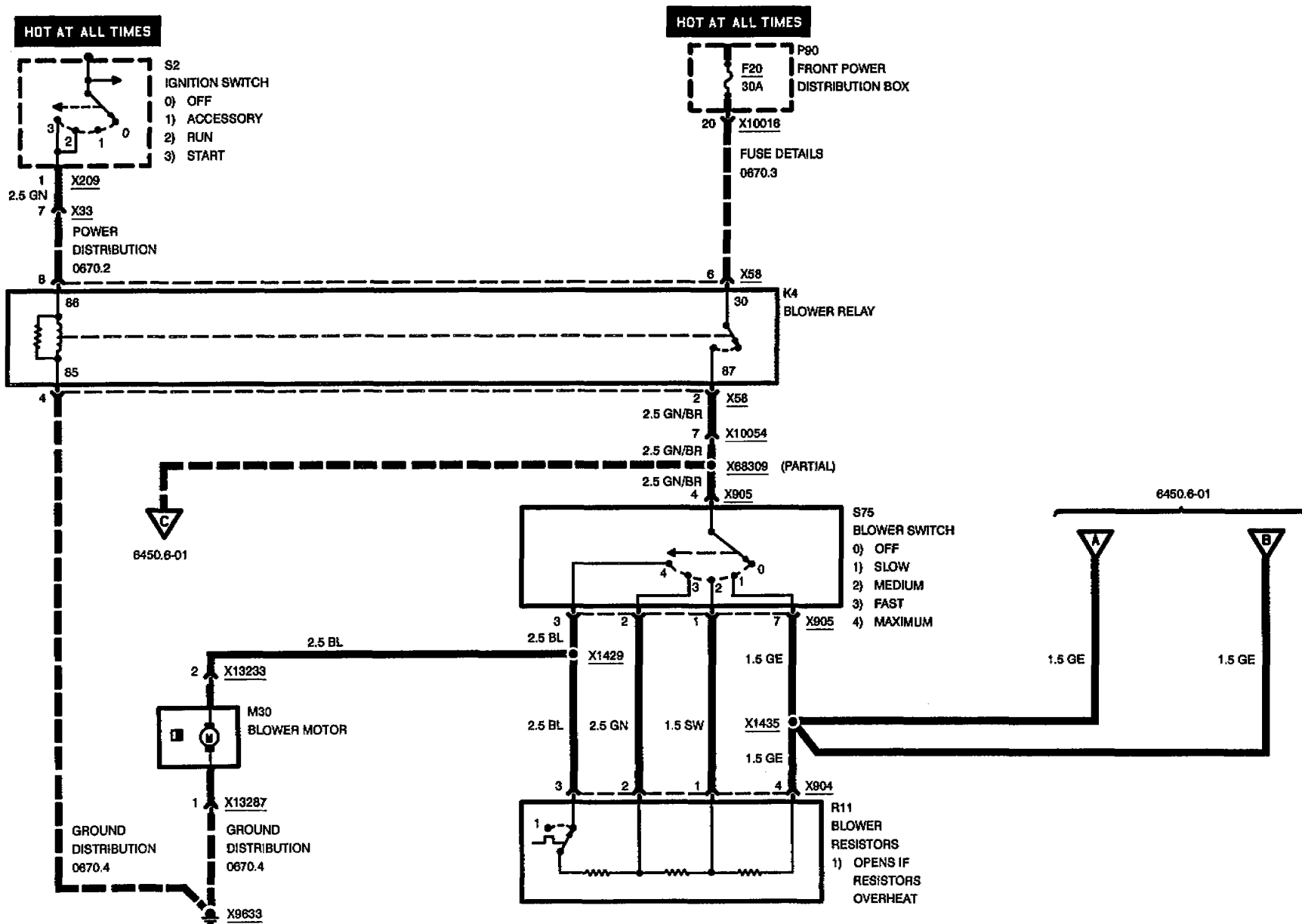
X18350

Pin	Type	Description/Function	Connection
1		Not used	
2	M	Ground	Ground point
3	E	Climate-ON-signal	Air conditioning/recirculated air operating unit
4		Not used	
5	A	Activate A/C compressor	Pressure switch
6	E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground

INTEGRATED HEATING- AND CLIMATE CONTROL

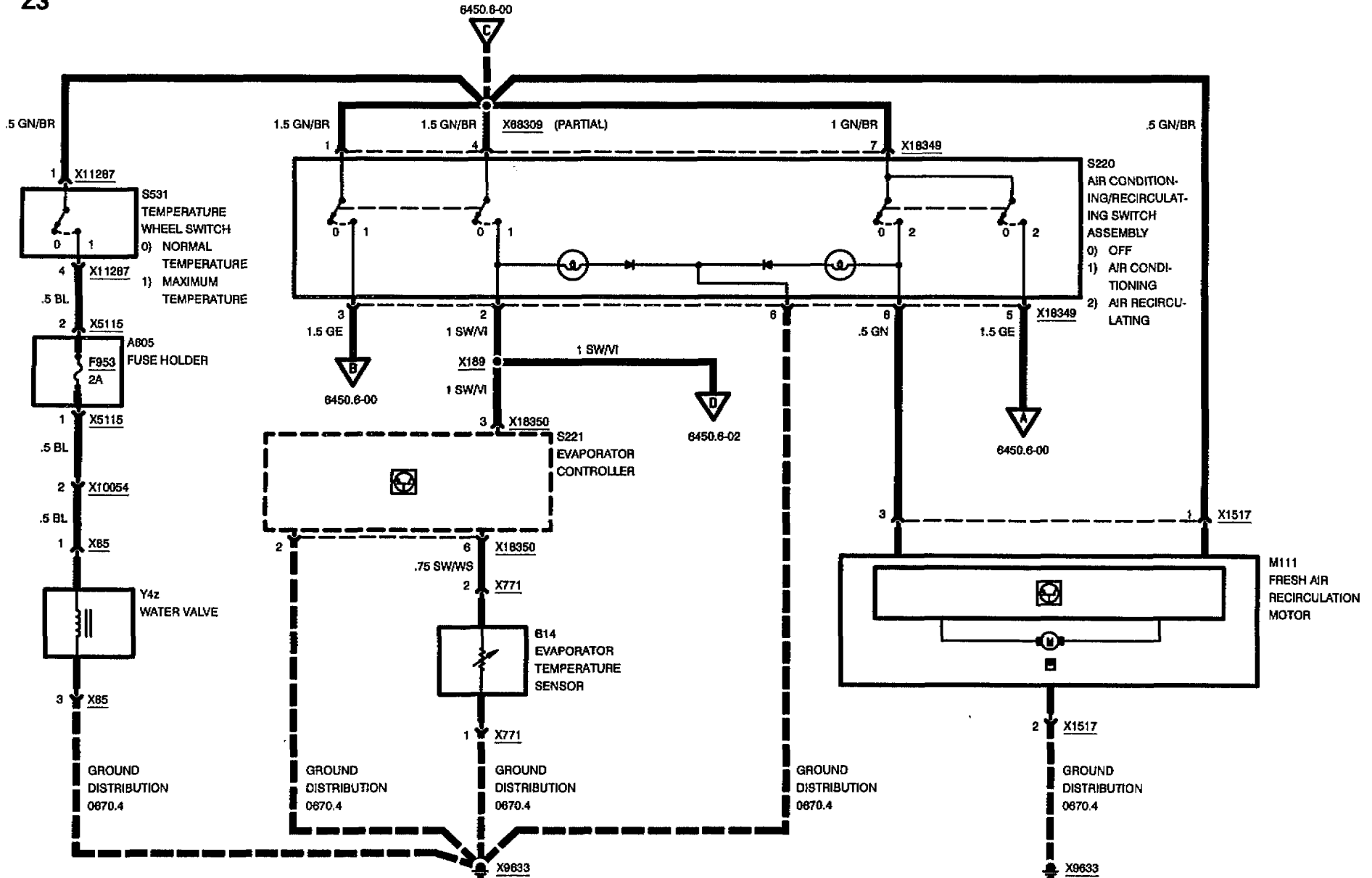
POWER, AIR FLOW CONTROL





Z3

INTEGRATED HEATING- AND CLIMATE CONTROL



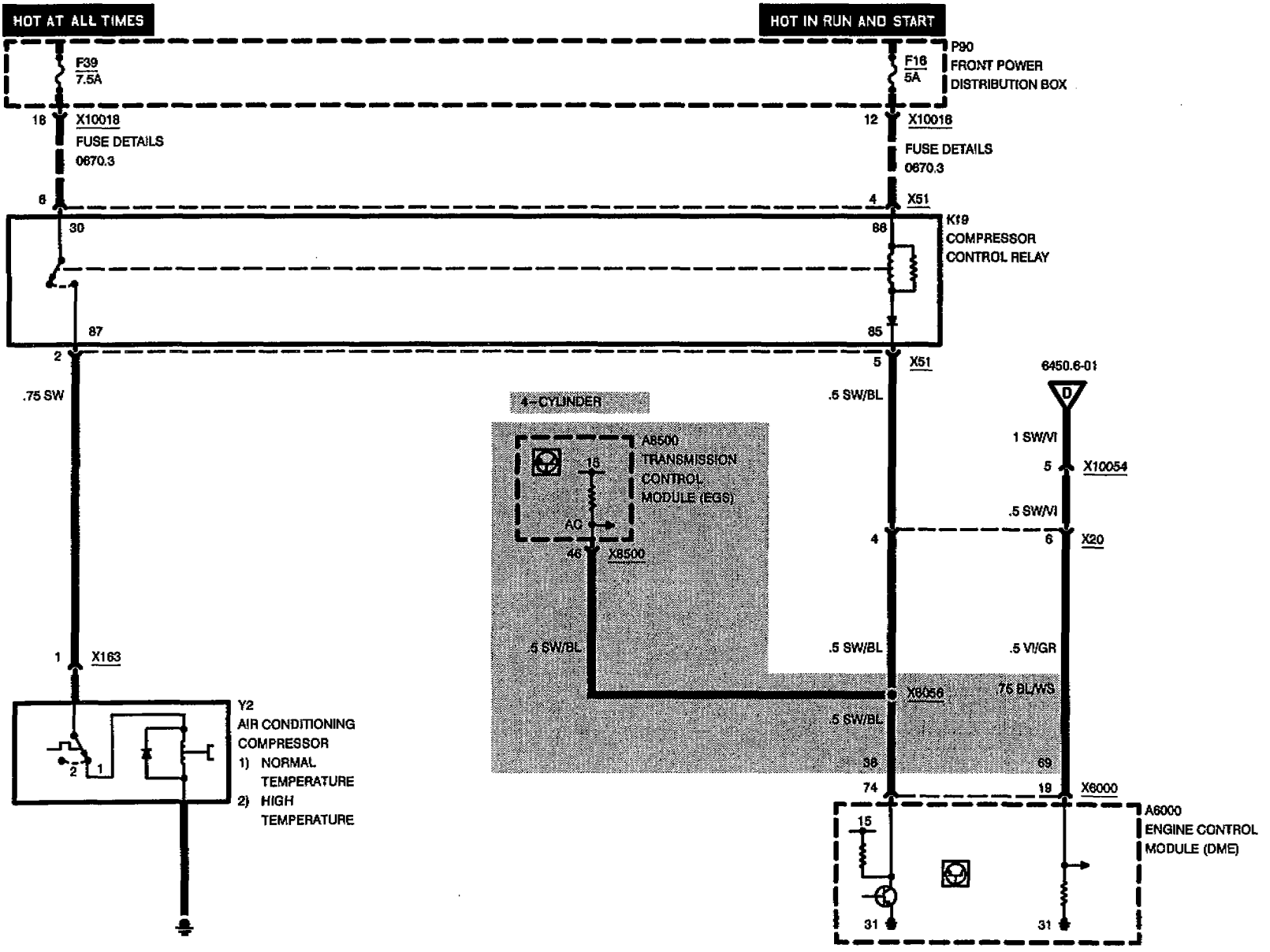
09/97

6450.6-01

1998

INTEGRATED HEATING- AND CLIMATE CONTROL

COMPRESSOR CONTROLS



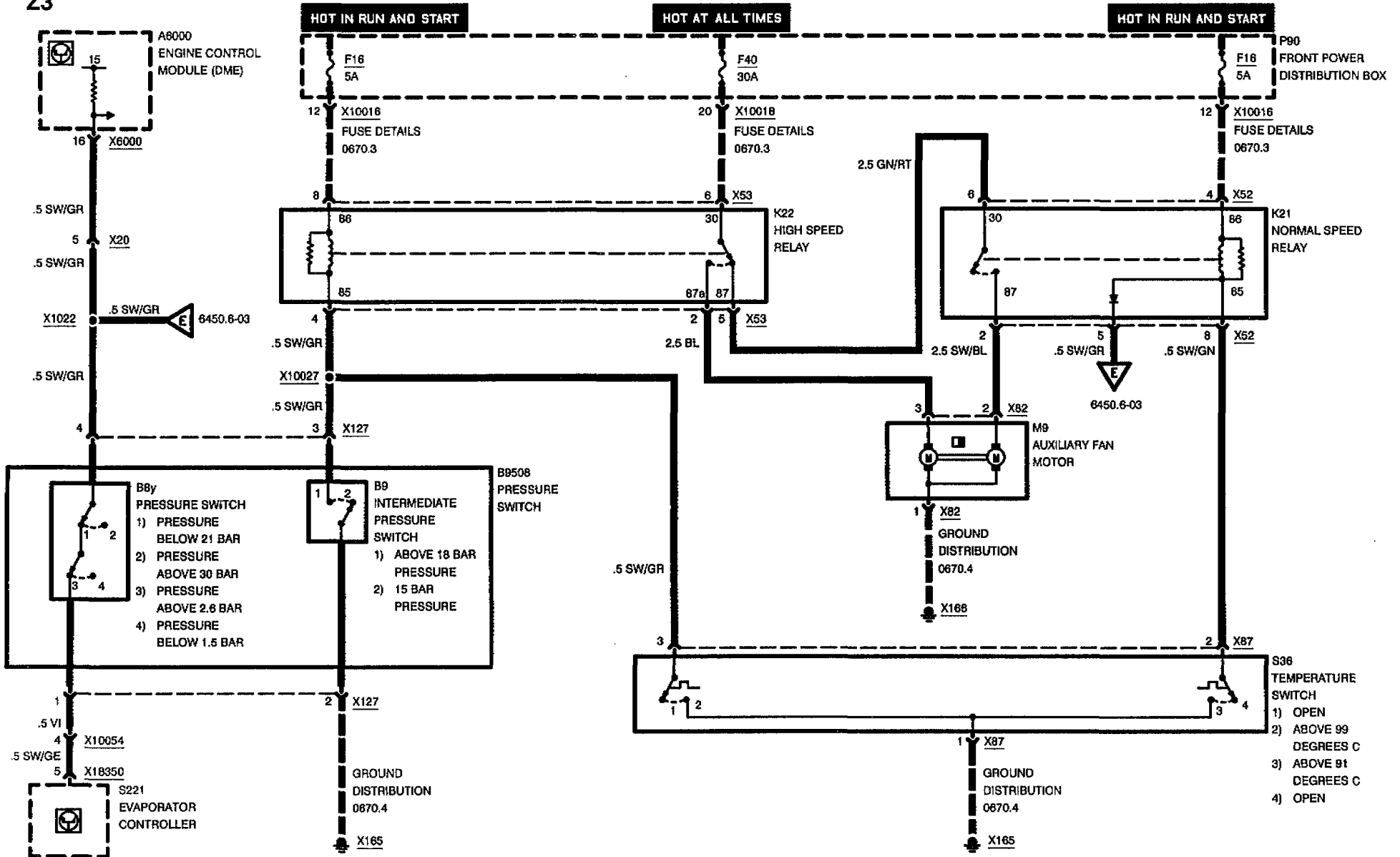


Z3

INTEGRATED HEATING- AND CLIMATE CONTROL

AUXILIARY FAN

6-CYLINDER



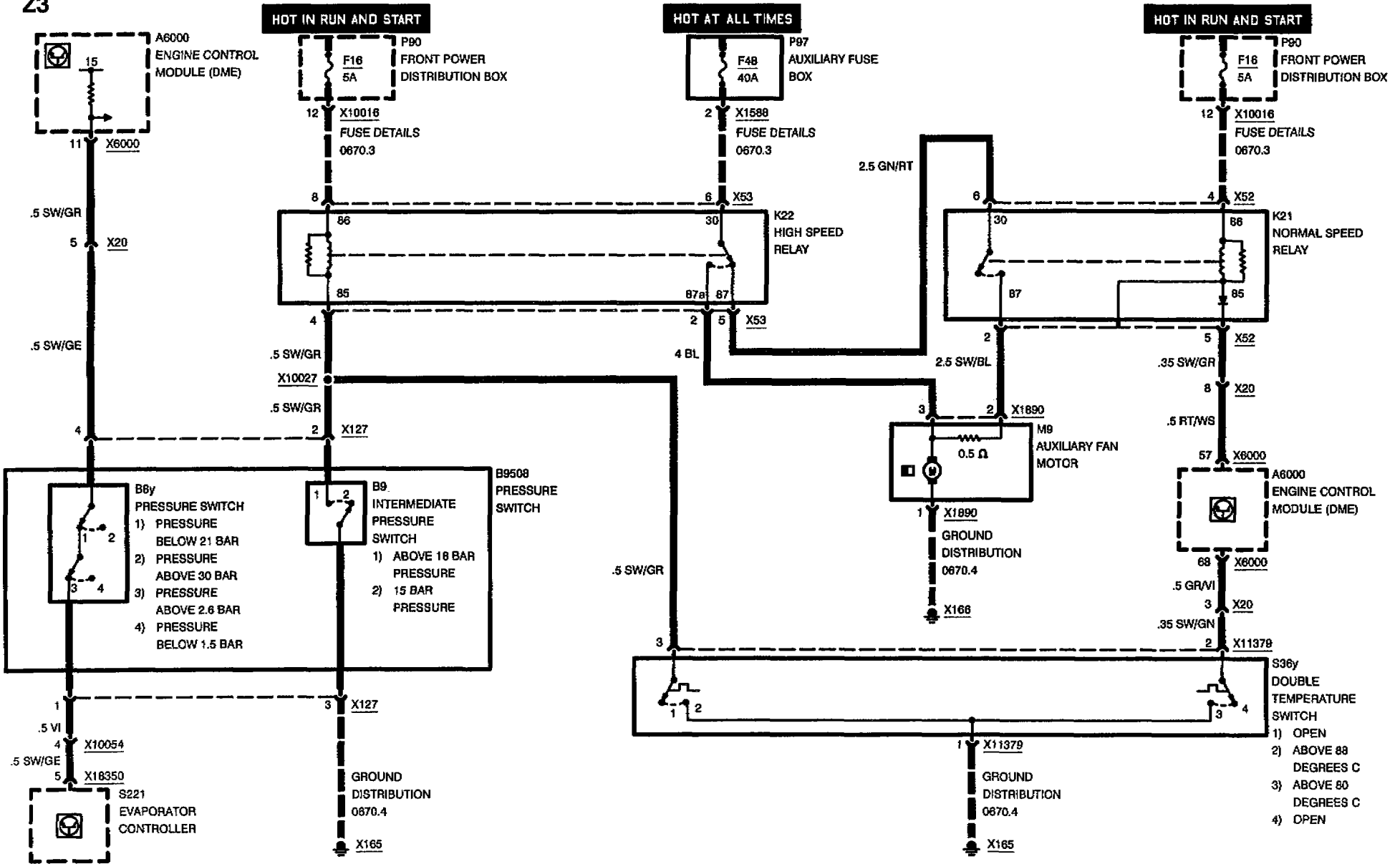
09/97

6450.6-03

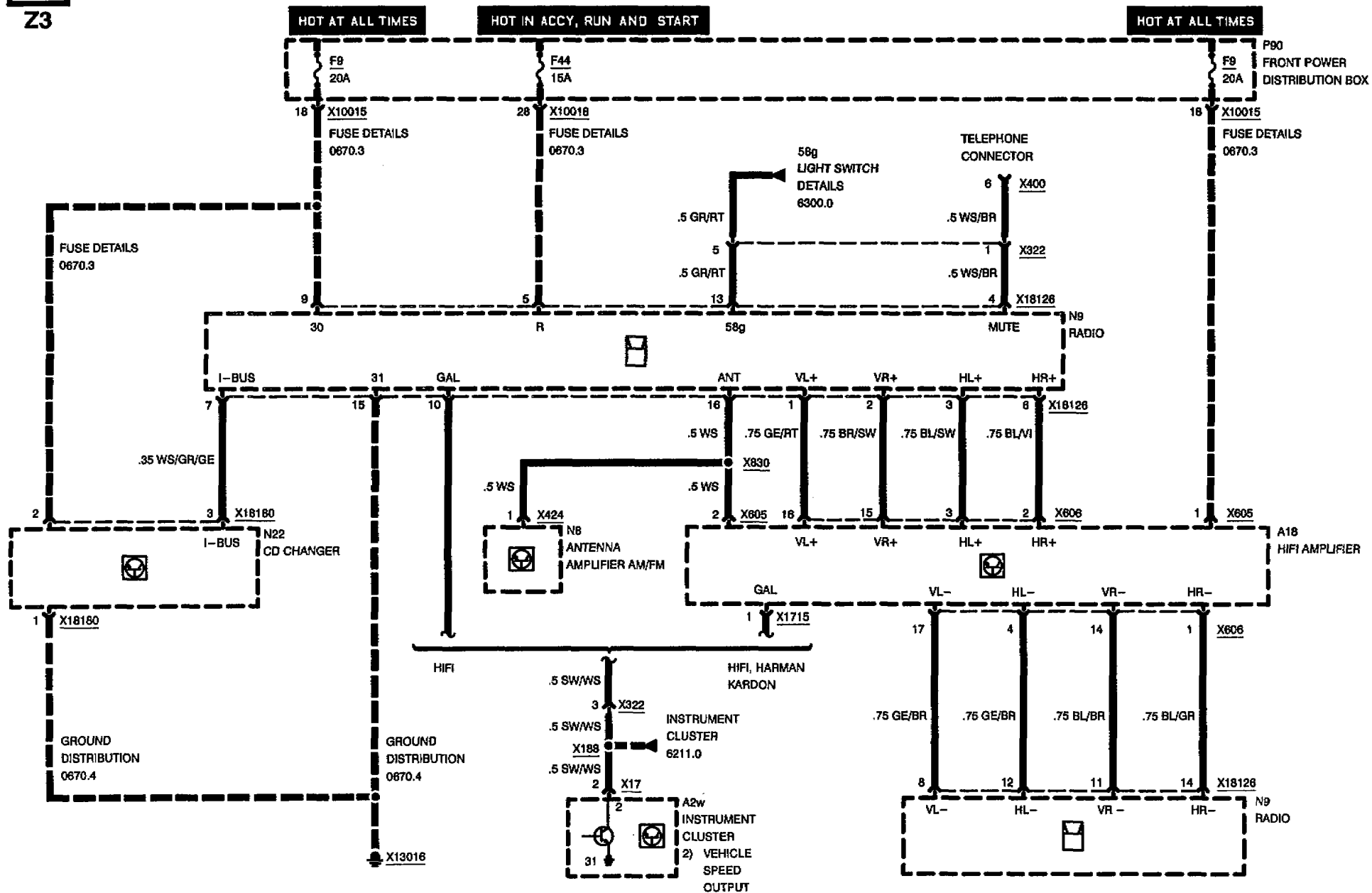
1998

Z3

AUXILIARY FAN



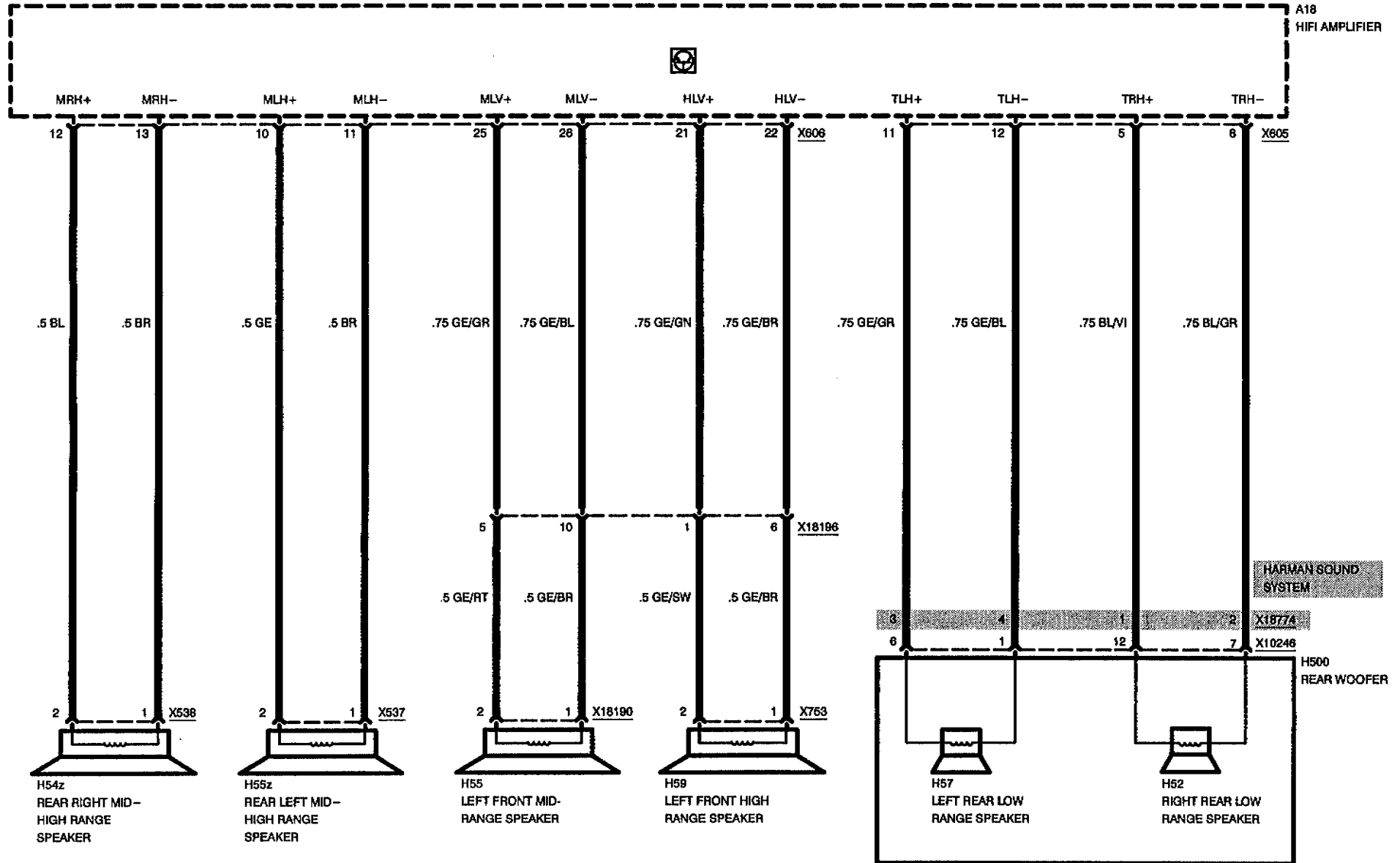
RADIO/HIFI

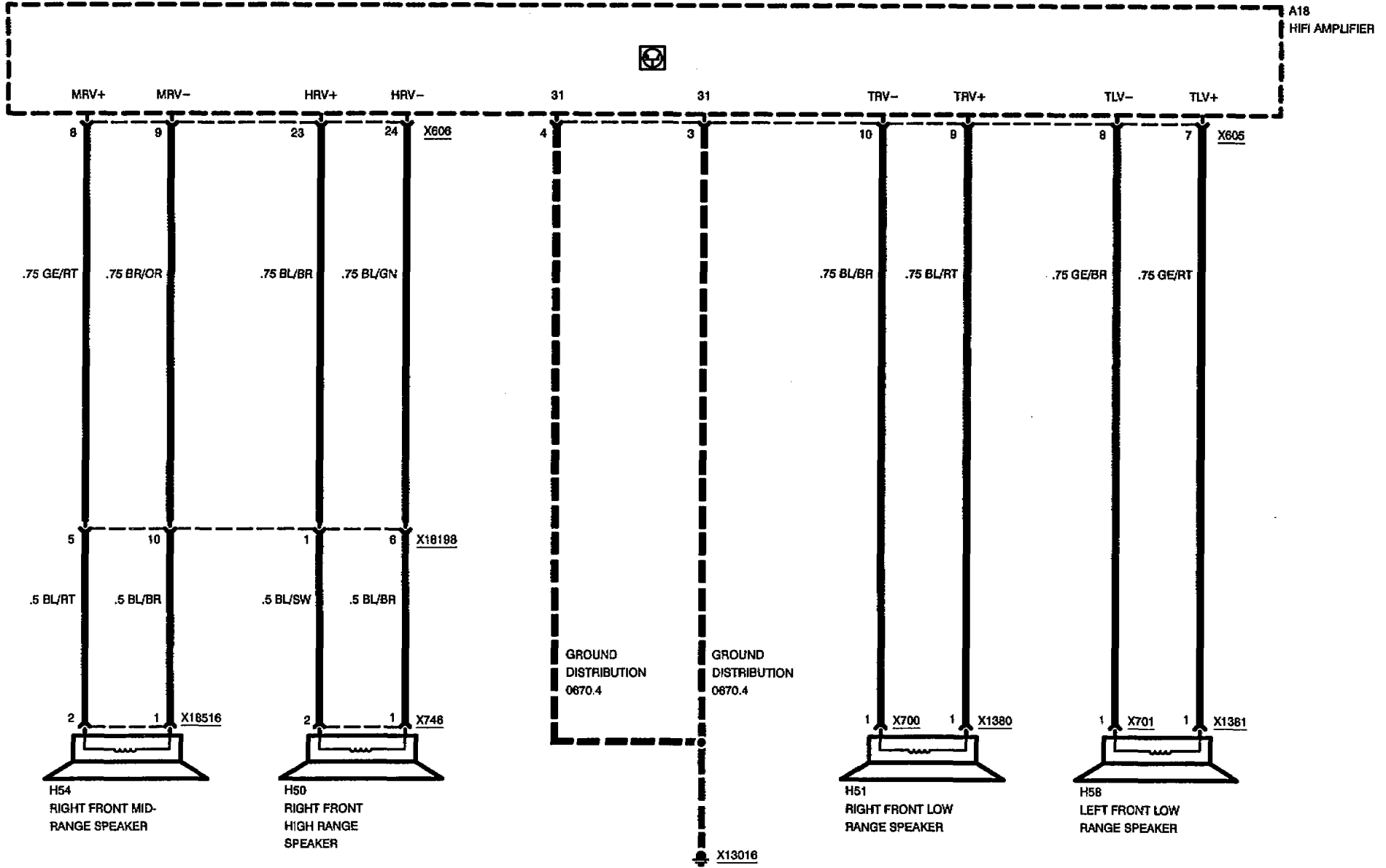




RADIO/HIFI

Z3

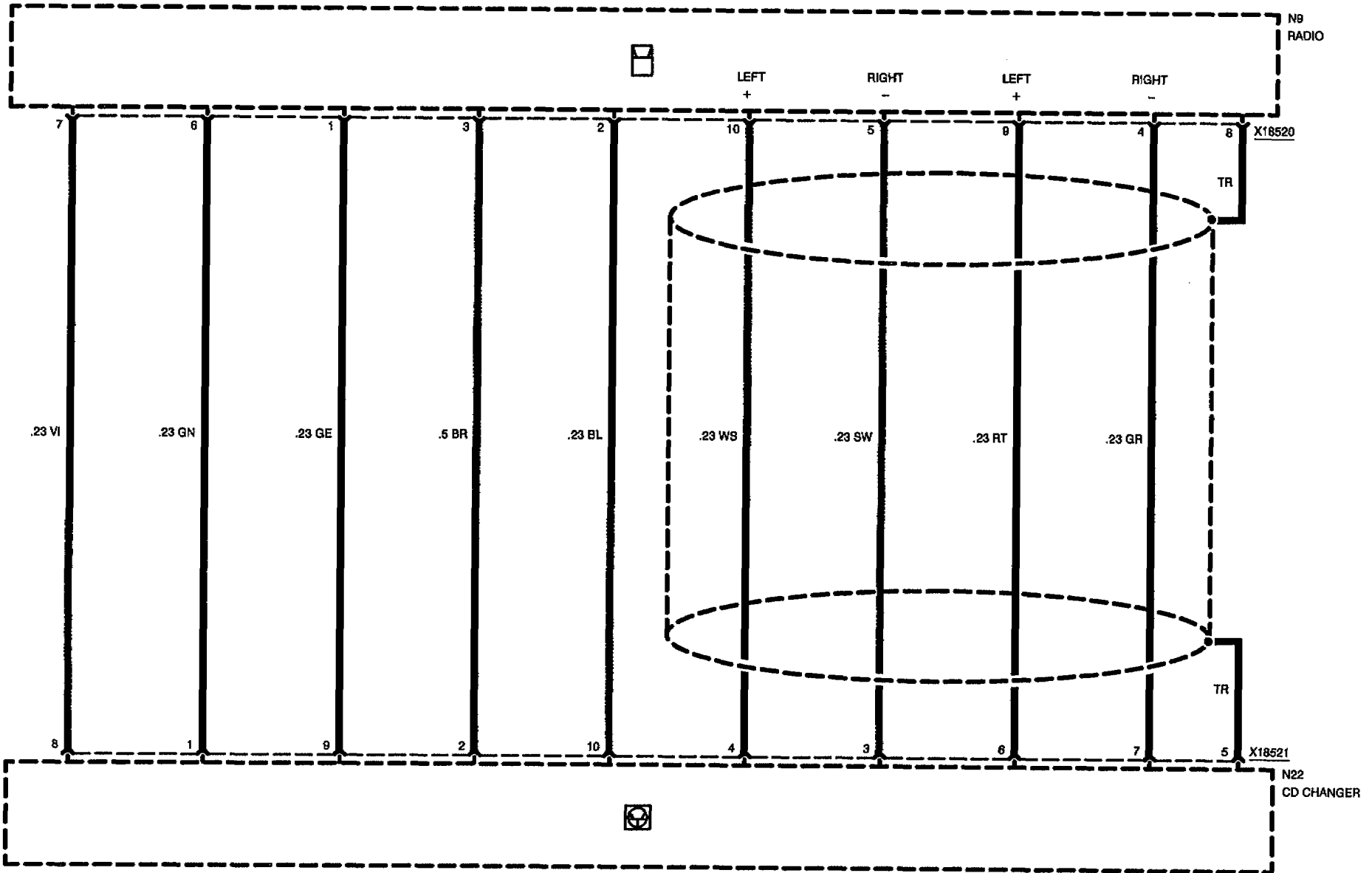






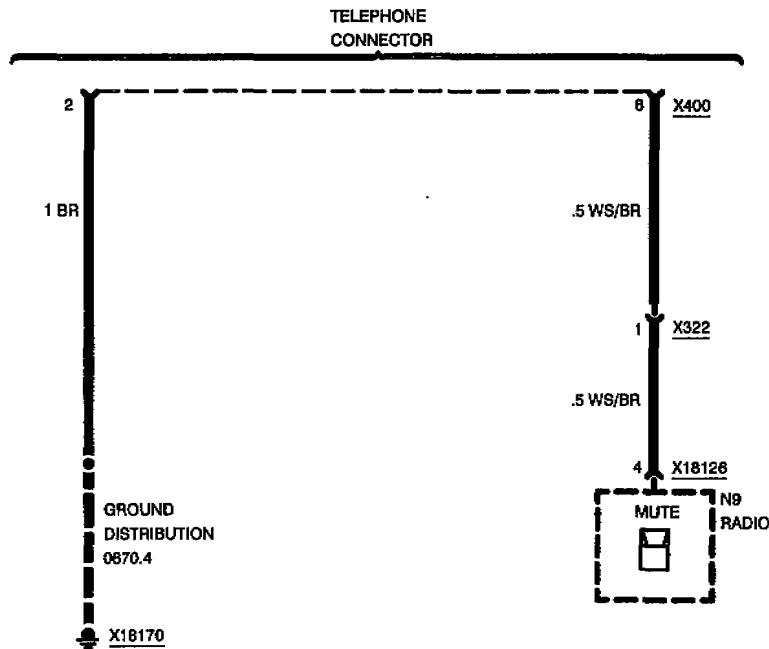
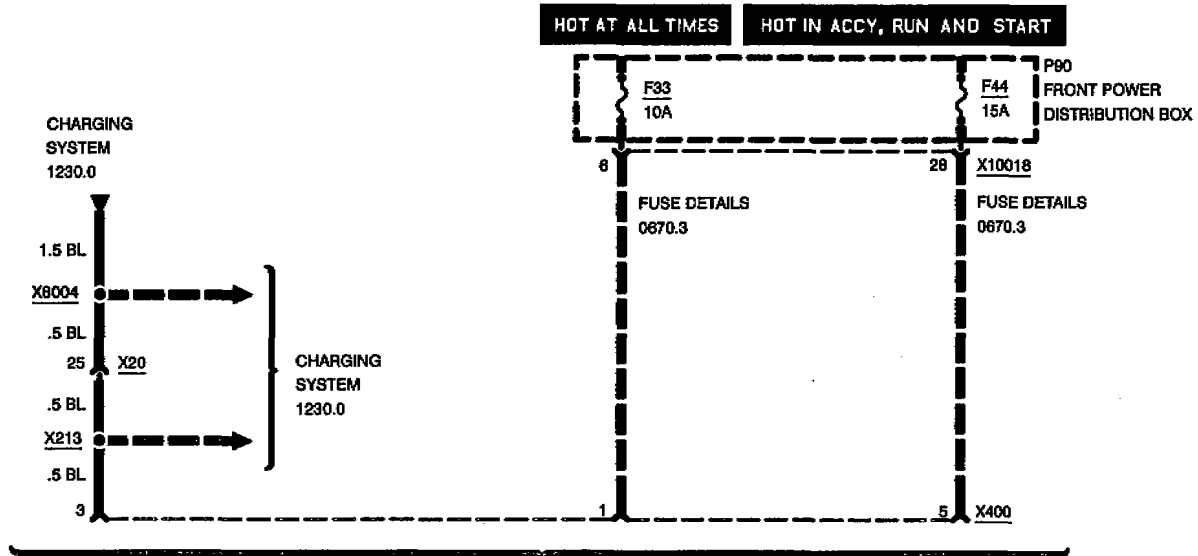
RADIO/HIFI

Z3

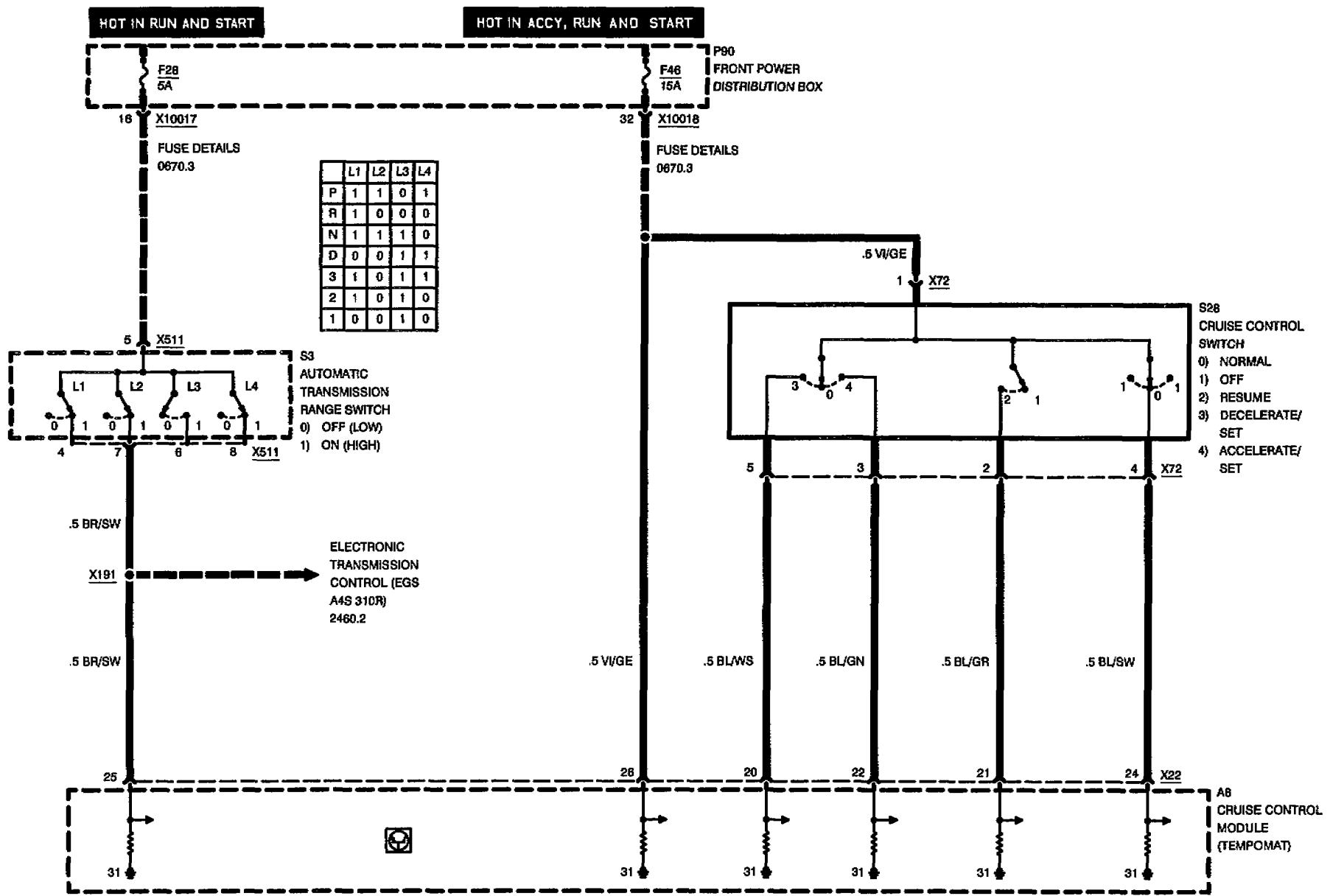


CELLULAR TELEPHONE (PROVISIONS)

PROVISIONS



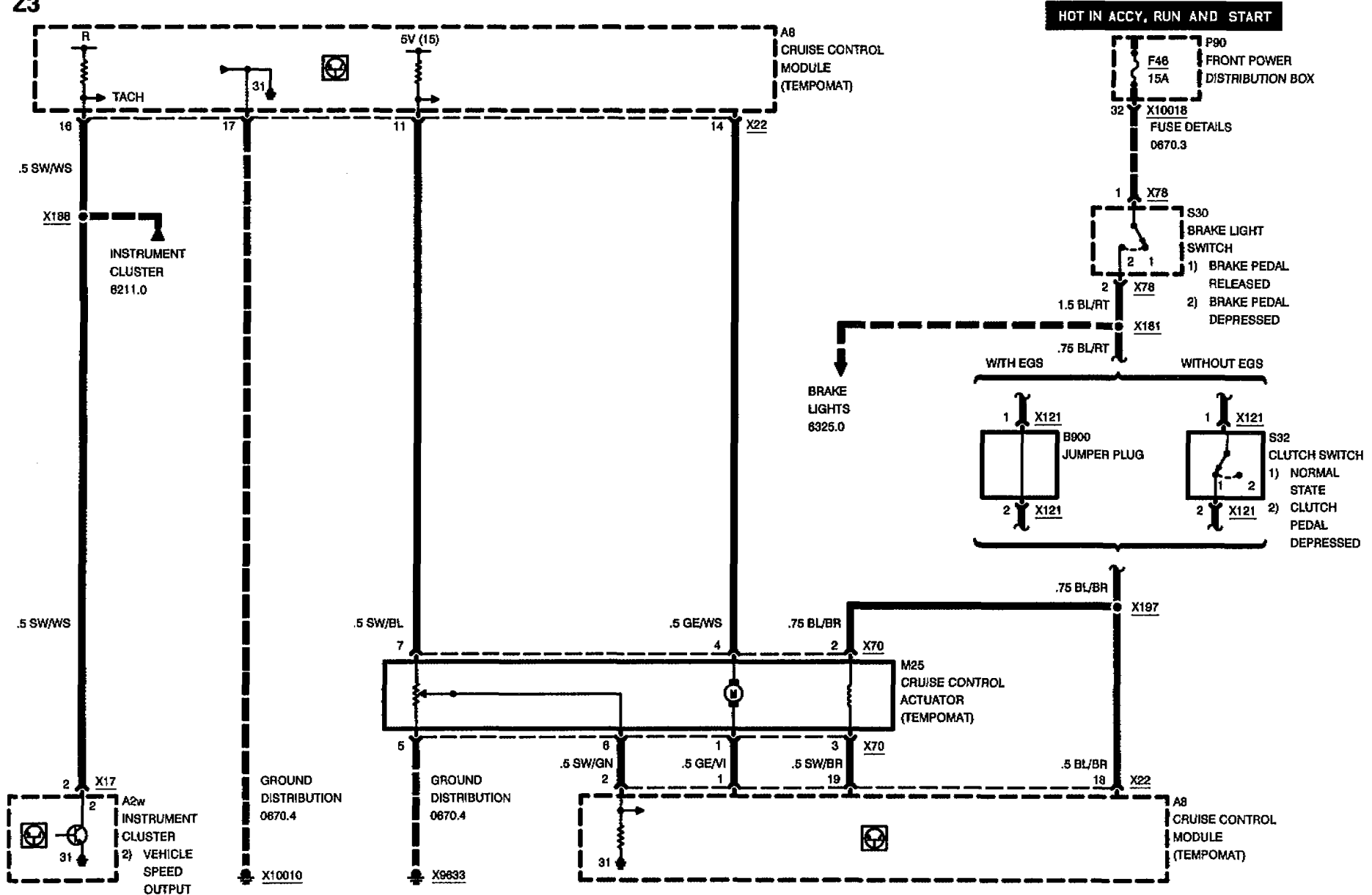
CRUISE CONTROL (TEMPOMAT)



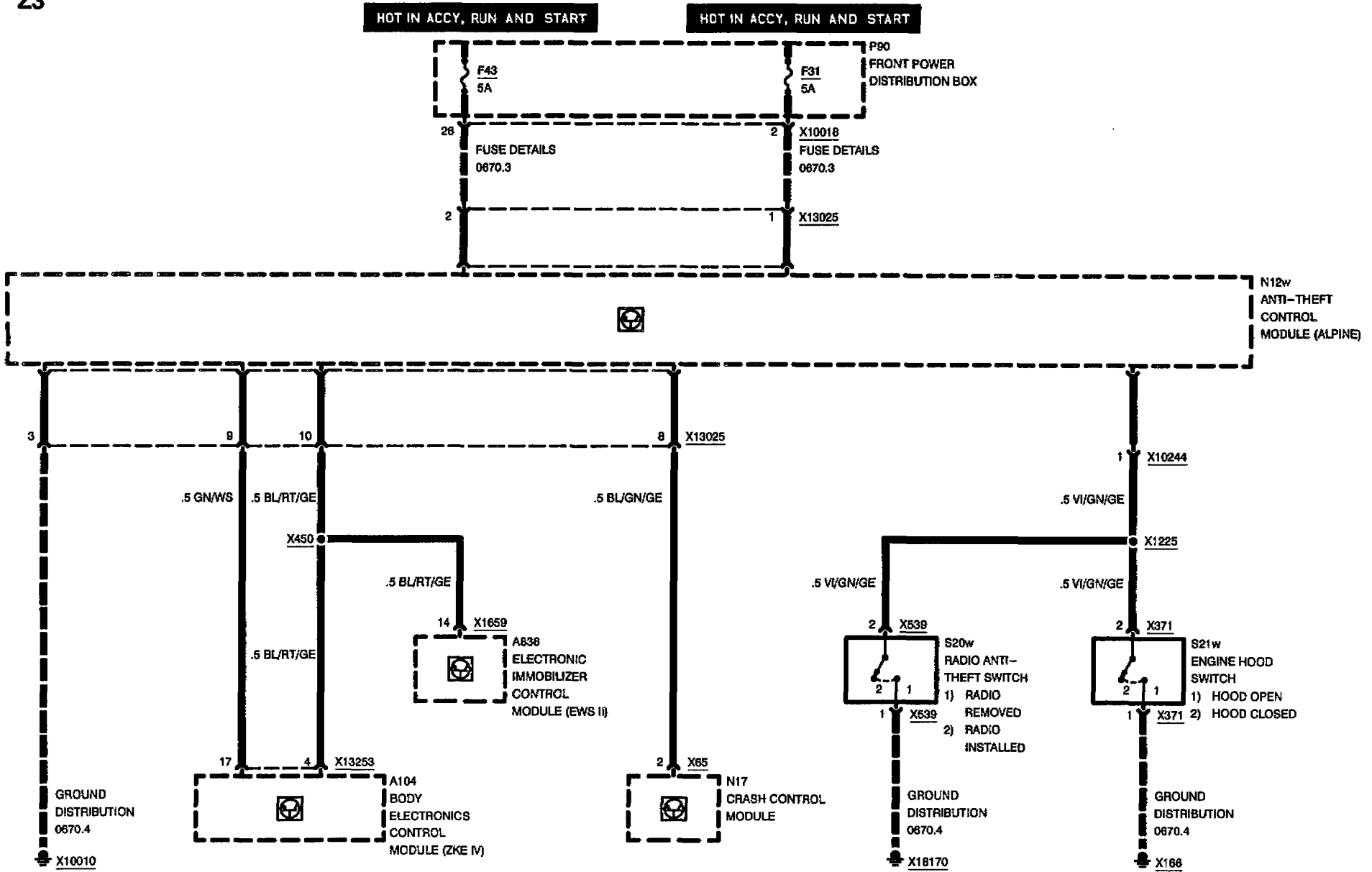


CRUISE CONTROL (TEMPOMAT)

Z3



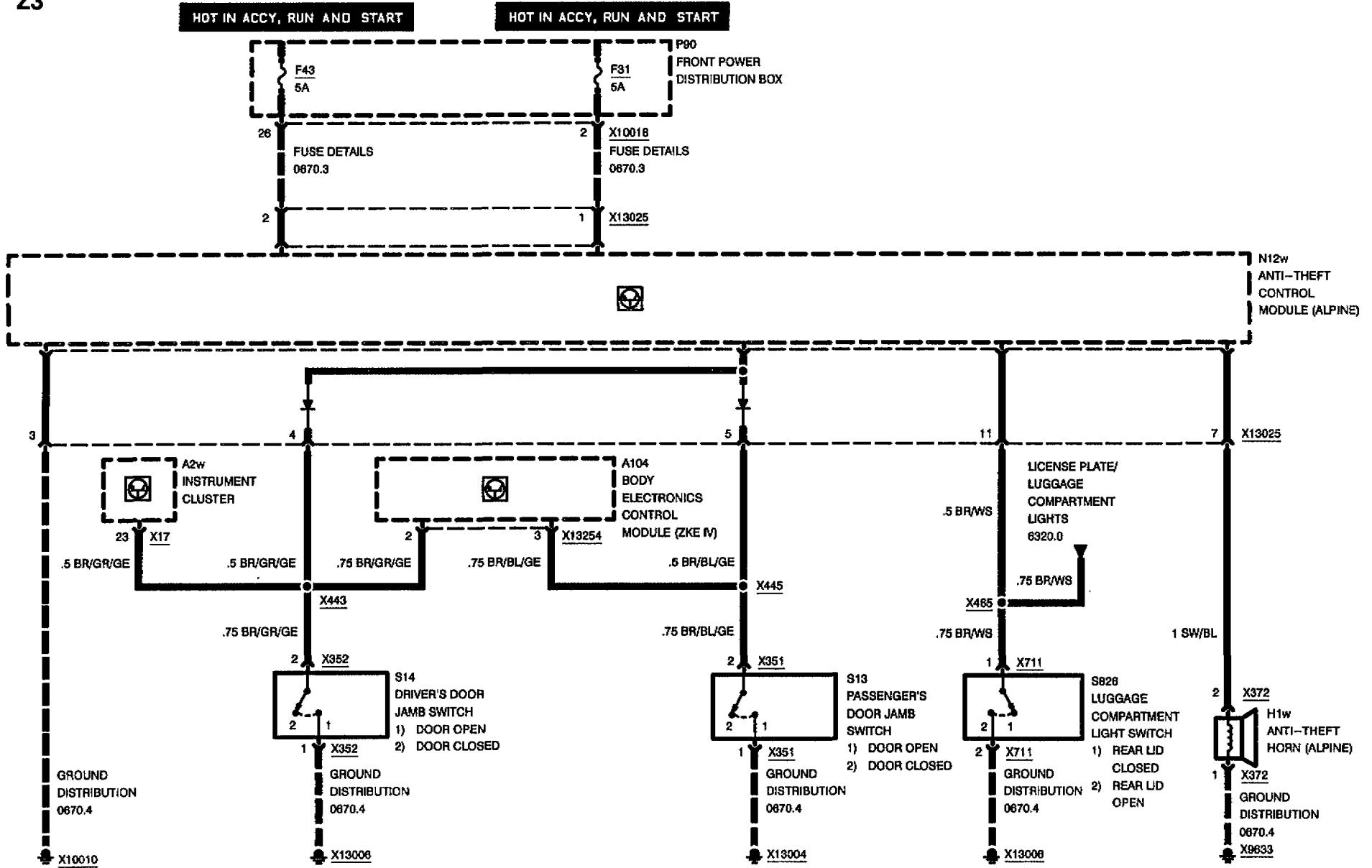
ANTI-THEFT SYSTEM (ALPINE)





ANTI-THEFT SYSTEM (ALPINE)

Z3



09/97

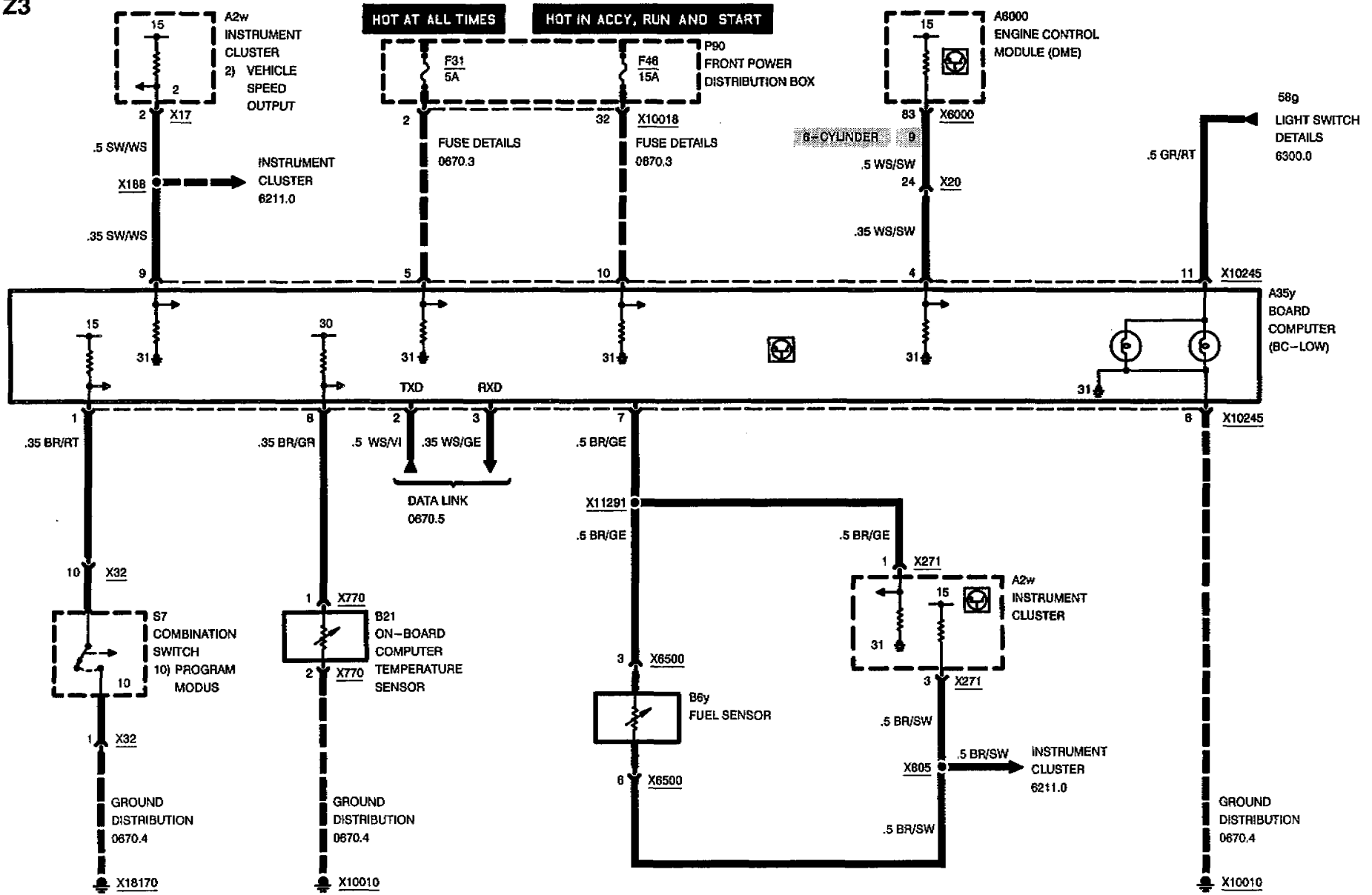
6575.2-01

1998



BOARD COMPUTER (BC-LOW)

Z3





COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	20-2	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	behind glove box	00-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below center console	22-2	
A18	HIFI AMPLIFIER	in LH side of luggage compartment behind trim panel		
A35y	BOARD COMPUTER (BC-LOW)	center console	01-3	
A51	WIPER/WASHER MODULE	behind glove box	00-2	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (4-cylinder)	00-1	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (6-cylinder)	00-3	
A64	WIPER/WASHER MODULE (LOW II)	behind glove box	00-2	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box		
A110	DIGITAL CLOCK	center console		
A113	SEAT OCCUPANCY DETECTOR	under RH front seat	24-1	
A605	FUSE HOLDER	center console (radio and console removed)	38-1	
A835	TRANSMITTER MODULE (EWS II)	near steering column	01-2	
A836	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)	behind glove box	00-1	
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment in E-Box	01-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment in E-Box	01-1	
B1	RIGHT FRONT SPEED SENSOR - ABS	on RH front wheel, above brake caliper		
B2	LEFT FRONT SPEED SENSOR - ABS	on LH front wheel, above brake caliper	12-3	
B3	RIGHT REAR SPEED SENSOR - ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR - ABS	on LH rear wheel, above brake caliper		

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7000.0-0

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6y ...	FUEL SENSOR	in fuel tank		
B8y ...	PRESSURE SWITCH	front RH side of engine compartment		
B9	INTERMEDIATE PRESSURE SWITCH	front RH side of engine compartment		
B10 ..	VEHICLE SPEED SENSOR	on differential	15-2	
B14 ..	EVAPORATOR TEMPERATURE SENSOR ..	RH side of LH footwell	21-2	
B16 ..	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	12-3	
B17 ..	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18 ..	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment	09-1	
B21 ..	ON-BOARD COMPUTER TEMP. SENSOR .	on front LH wheel well (4-cylinder)	12-1	
B21 ..	ON-BOARD COMPUTER TEMP. SENSOR .	in RH front bumper (6-cylinder)	35-2	
B65 ..	FUEL TANK PRESSURE SENSOR	under rear oddments compartment		
B78 ..	DRIVER'S SIDE IMPACT SENSOR	under LH front seat		
B79 ..	PASSENGER'S SIDE IMPACT SENSOR	under RH front seat		
B900 .	JUMPER PLUG	LH footwell		
B6203	CRANKSHAFT POSITION/RPM SENSOR ...	rear LH side of engine compartment	32-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine	31-3	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (4-cylinder)	11-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (6-cylinder)	34-1	
B6207	HOT FILM AIR MASS METER	LH side of engine compartment	33-3	
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine		
B6210y	OXYGEN SENSOR (IN FRONT OF CAT- ALYTIC CONVERTER)	under center of car	35-1	
B6217	HOT FILM AIR MASS METER	front LH side of engine compartment	11-3	

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7000.0-1

1998



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6220y	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	under center of car	35-1	
B6231	OIL PRESSURE SWITCH	lower LH side of engine	32-2	
B6232	ENGINE COOLANT TEMP. SENSOR	front of engine	10-2	
B6240	KNOCK SENSOR	top front of engine (4-cylinder)	10-2	
B6240	KNOCK SENSOR	top front of engine (6-cylinder)	33-2	
B6247	CHARCOAL FILTER SHUT-OFF VALVE	under LH rear of car	36-1	
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	rear of engine compartment	32-1	
B9508	PRESSURE SWITCH	front RH side of engine compartment	30-2	
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	under center of car	14-3	
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	under center of car		
C101	CONTACT RING	top of steering column	38-3	
D100	DATA LINK CONNECTOR	rear RH side of engine compartment	31-1	
D110	OBD II CONNECTOR	center console right	28-3	
E7	LEFT HEADLIGHT	front LH side of engine compartment		
E8	RIGHT HEADLIGHT	front RH side of engine compartment		
E9	REAR DEFOGGER I	hard top		
E11	LEFT HIGH BEAM LIGHT	near front LH headlight	29-1	
E12	RIGHT HIGH BEAM LIGHT	near front RH headlight		
E13	LEFT LOW BEAM LIGHT	near front LH headlight	29-1	
E14	RIGHT LOW BEAM LIGHT	near front RH headlight	29-3	

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7000.0-2

1998



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E15 ...	LEFT PARK LIGHT	near front LH headlight		
E16 ...	LEFT REAR LIGHT ASSEMBLY	LH side of body rear end		
E17 ...	RIGHT REAR LIGHT ASSEMBLY	RH side of body rear end	03-1	
E19 ...	RIGHT PARK LIGHT	near front RH headlight		
E21 ...	LEFT FRONT MARKER LIGHT	front of vehicle		
E22 ...	RIGHT FRONT MARKER LIGHT	front of vehicle		
E25 ...	FRONT ASHTRAY LIGHT	center console		
E26 ...	LEFT FOG LIGHT	under LH front bumper		
E27 ...	RIGHT FOG LIGHT	under RH front bumper	13-2	
E28 ...	FRONT CIGAR LIGHTER	center console		
E29 ...	FRONT CIGAR LIGHTER LIGHT	center console	22-3	
E32 ...	TRUNK COMPARTMENT LIGHT	in luggage compartment		
E43 ...	LEFT LICENSE PLATE LIGHT	underside of trunk lid, near license plate		
E44 ...	RIGHT LICENSE PLATE LIGHT	underside of trunk lid, near license plate		
E51 ...	LEFT WASHER JET HEATER	on underside of engine hood	16-2	
E52 ...	RIGHT WASHER JET HEATER	on underside of engine hood	16-2	
E56 ...	DRIVER'S SEATBACK HEATER	in top of LH backrest		
E57 ...	DRIVER'S SEAT HEATER	under LH front seat		
E58 ...	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59 ...	PASSENGER'S SEATBACK HEATER	in top of RH backrest		
E82 ...	TRANS. POSITION INDICATOR LIGHT	center console	22-1	
E99 ...	HARD TOP CONNECTOR 1	near LH rear wheel well		
E105 .	HEAT/A/C CONTROL PANEL ILLUMINATION	center of dash	21-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E106	HEAT/A/C CONTROL PANEL ILLUMINATION	center of dash	21-3	
E800	FRONT LEFT INTERIOR LIGHT	near interior rear view mirror		
F97	FUSIBLE LINK	in RH side of luggage compartment	03-1	
G1	BATTERY	in RH side of luggage compartment	03-1	
G5	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel		
G6	PASSENGER'S AIR BAG GAS GENERATOR	behind glove box above		
G12	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	in LH front seat belt buckle	38-2	
G13	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	in RH front seat belt buckle	38-2	
G14	LEFT SIDE AIR BAG GAS GENERATOR	LH front door		
G15	RIGHT SIDE AIR BAG GAS GENERATOR	RH front door		
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment	03-2	
G6509	GENERATOR	front LH side of engine compartment	02-3	
H1w	ANTI-THEFT HORN (ALPINE)	rear LH side of engine compartment	09-1	
H2	LEFT HORN	under LH front bumper		
H3	RIGHT HORN	RH front of wheel well	13-2	
H4	RIGHT FRONT TURN LIGHT	front of vehicle		
H7	LEFT FRONT TURN LIGHT	front of vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H10	CHIME MODULE	below LH side of dash		
H34	HIGH LEVEL STOP LIGHT	on lift gate		

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COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H7 ...	LEFT FRONT TURN LIGHT	front of vehicle		
H8 ...	RIGHT FRONT AUXILIARY TURN LIGHT ...	front of vehicle		
H9 ...	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H10 ..	CHIME MODULE	below LH side of dash		
H34 ..	HIGH LEVEL STOP LIGHT	on lift gate		
H50 ..	RIGHT FRONT HIGH RANGE SPEAKER ...	in upper RH front door		
H51 ..	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A-pillar		
H52 ..	RIGHT REAR LOW RANGE SPEAKER	in rear speaker box		
H54 ..	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door		
H54z .	REAR RIGHT MID-HIGH RANGE SPEAKER	in rear speaker box		
H55 ..	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H55z .	REAR LEFT MID-HIGH RANGE SPEAKER .	in rear speaker box		
H57 ..	LEFT REAR LOW RANGE SPEAKER	in rear speaker box		
H58 ..	LEFT FRONT LOW RANGE SPEAKER	in lower LH A-pillar		
H59 ..	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
H500 .	REAR WOOFER	in rear speaker box		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K9	UNLOADER RELAY, TERMINAL 15	rear LH side of engine compartment in Power Distribution Box	09-3	
K10 ...	ABS RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K16 ...	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K19 ...	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K21 ...	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K22 ...	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K46 ...	HIGH BEAM LIGHT RELAY	footwell, driver's side	19-1	
K47 ...	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K48 ...	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K75 ...	ABS PUMP MOTOR RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K910 .	PASSENGER'S SEAT TILT ADJUST CUT-OFF RELAY	underside of RH front seat		
K911 .	PASSENGER'S SEAT LENGTH ADJUST CUT-OFF RELAY	underside of RH front seat		
K920 .	DRIVER'S SEAT TILT ADJUST CUT-OFF RELAY	underside of LH front seat		
K921 .	DRIVER'S SEAT LENGTH ADJUST CUT-OFF RELAY	underside of LH front seat		
K6300	ENGINE CONTROL MODULE RELAY	rear RH side of engine compartment in E-Box (6-cylinder)	01-1	
K6300	ENGINE CONTROL MODULE RELAY	rear RH side of engine compartment in E-Box (4-cylinder)	36-3	
K6304	SECONDARY AIR PUMP RELAY	rear RH side of engine compartment in E-Box (6-cylinder)	01-1	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment (4-cylinder)	37-1	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment in E-Box (6-cylinder)	01-1	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment in E-Box (4-cylinder)	36-3	
K6301w	FUEL PUMP RELAY	below LH side of dash	19-1	
K18363	CONVERTIBLE TOP RELAY I (CLOSE)	in LH side of luggage compartment	25-3	



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K18364	CONVERTIBLE TOP RELAY II (OPEN)	in LH side of luggage compartment	25-3	
M2	FUEL PUMP	in fuel tank		
M3	WIPER MOTOR	rear of engine compartment		
M4	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir		
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir		
M9	AUXILIARY FAN MOTOR	behind front grille		
M12	DRIVER'S DOOR LOCK MOTOR	driver's door		
M13	PASSENGER'S DOOR LOCK MOTOR	passenger's door		
M17	TRUNK LOCK MOTOR	rear side of luggage compartment behind trim panel		
M21	DRIVER'S WINDOW MOTOR	in driver's door	17-2	
M23	PASSENGER'S WINDOW MOTOR	in passenger's door	18-3	
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	rear LH side of engine compartment	08-1	
M30	BLOWER MOTOR	rear of engine compartment		
M51	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	25-1	
M52	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	25-1	
M59	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat	24-1	
M60	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat	24-1	
M93	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine	35-3	
M101	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	25-3	
M111	FRESH AIR RECIRCULATION MOTOR	RH side of LH footwell	21-2	



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M6510	STARTER	rear LH side of engine compartment	02-2	
N8 ...	ANTENNA AMPLIFIER AM/FM	in LH side of luggage compartment behind trim panel		
N9 ...	RADIO	center console		
N12w .	ANTI-THEFT CONTROL MODULE (ALPINE)	behind glove box		
N17 ..	CRASH CONTROL MODULE	footwell, driver's side	19-1	
N22 ..	CD CHANGER	in LH forward side of luggage compartment		
P90 ...	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment		
P97 ...	AUXILIARY FUSE BOX	below LH side of dash		
R11 ..	BLOWER RESISTORS	behind center of dashboard		
R31 ..	AUXILIARY THROTTLE POSITION SENSOR	front of engine (6-cylinder)	33-3	
R31 ..	AUXILIARY THROTTLE POSITION SENSOR	front of engine (4-cylinder)	37-3	
R6252	THROTTLE POSITION SENSOR	front of engine (4-cylinder)	10-3	
R6252	THROTTLE POSITION SENSOR	front of engine (6-cylinder)	33-3	
S2	IGNITION SWITCH	LH side of dash		
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console	22-1	
S4	HORN SWITCH	on steering wheel		
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console		
S7	COMBINATION SWITCH	LH side of dash LH side of steering column above		
S8	LIGHT SWITCH	LH side of dash		



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S10...	FOG LIGHT SWITCH	LH side of dash		
S13...	PASSENGER'S DOOR JAMB SWITCH	RH B-pillar	26-1	
S14...	DRIVER'S DOOR JAMB SWITCH	LH B-pillar	27-1	
S17...	MIRROR CONTROL SWITCH	in upper LH front door		
S18...	HAZARD SWITCH	center console bottom		
S20w .	RADIO ANTI-THEFT SWITCH	center console (radio and console removed)	38-1	
S21w .	ENGINE HOOD SWITCH	near LH headlight assembly	29-1	
S28...	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above		
S30...	BRAKE LIGHT SWITCH	LH footwell	20-1	
S31...	PARK BRAKE SWITCH	center console on rear of park brake lever		
S32...	CLUTCH SWITCH	LH footwell	20-1	
S36...	TEMPERATURE SWITCH	front RH side of engine compartment	30-1	
S36y .	DOUBLE TEMPERATURE SWITCH	front RH side of engine compartment	30-1	
S47...	DRIVER'S DOOR LOCK SWITCH	in driver's door	17-1	
S49...	PASSENGER'S DOOR LOCK SWITCH	in passenger's door		
S51...	DRIVER'S SEAT, SEAT CONTROL SWITCH .	LH front seat		
S53...	DRIVER'S SEAT, SEAT HEATER SWITCH ...	center console	23-1	
S54...	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console	23-1	
S56...	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat		
S58...	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S59 . . .	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S75 . . .	BLOWER SWITCH	center of dash	21-3	
S76 . . .	REAR WINDOW DEFOGGER SWITCH	center console		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever		
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever		
S143 .	CONVERTIBLE TOP ACTUATING SWITCH .	center console		
S164 .	CONVERTIBLE TOP END-POSITION MI- CRO SWITCH	at convertible top linkage	17-3	
S198 .	JET HEATER THERMOSWITCH	on front LH wheel well	12-1	
S220 .	AIR CONDITIONING/RECIRCULATING SWITCH ASSEMBLY	center console	01-3	
S221 .	EVAPORATOR CONTROLLER	RH side of LH footwell	21-2	
S235 .	STARTER IMMOBILIZATION SWITCH	rear LH side of engine compartment below		
S408 .	SIDE LIGHT SWITCH	near interior rear view mirror	28-2	
S531 .	TEMPERATURE WHEEL SWITCH	center of dash	21-3	
S559 .	PASSENGER'S AIR BAG CUT-OFF SWITCH	center console		
S826 .	LUGGAGE COMPARTMENT LIGHT SWITCH	underside of trunk lid		
S910 .	DRIVER'S SEAT LIMIT SWITCH	underside of LH front seat		
S911 .	PASSENGER'S SEAT LIMIT SWITCH	underside of RH front seat		
S8503	PROGRAM SWITCH	center console	22-1	
S8507	KICK-DOWN SWITCH	behind gas pedal	19-3	

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COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S8511	REVERSING LIGHT SWITCH	LH side of transmission	14-2	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment		
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment		
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment		
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment		
T6155	CYL. 5 IGNITION COIL	RH side of engine compartment		
T6156	CYL. 6 IGNITION COIL	RH side of engine compartment		
V7	ASC DIODE	Power Distribution Box rear LH side of engine compartment		
X0	B+ JUNCTION POINT	rear LH side of engine compartment in Power Distribution Box	02-1	
X2	BATTERY B+ START POINT	rear LH side of engine compartment in Power Distribution Box		
X16	(26 PINS, NATURAL)	LH side of dash rear side of instrument cluster, A2w	20-2	00-3
X17	(26 PINS, BLUE)	LH side of dash rear side of instrument cluster, A2w	20-2	00-3
X20	(25 PINS, BLACK)	rear LH side of engine compartment	08-1	04-4
X22	(26 PINS, BLUE)	behind glove box	00-2	00-3
X29	(1 PIN, ---)	LH side of steering column		
X32	(12 PINS, NATURAL)	on steering column	19-2	02-4
X33	(12 PINS, BLACK)	on steering column	19-2	02-4
X44	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X45	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X51	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X52	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X53	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X54 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X56 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X58 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X63 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X64 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X65 ...	(9 PINS, BLACK)	below LH side of dash		03-4
X69 ...	(25 PINS, GRAY)	rear LH side of engine compartment	08-1	04-4
X70 ...	(8 PINS, BLACK)	rear LH side of engine compartment	08-1	06-2
X72 ...	(6 PINS, NATURAL)	on steering column	19-2	05-3
X74 ...	(50 PINS, BLACK)	below center console	22-2	11-2
X78 ...	(4 PINS, BLACK)	on steering column	20-1	03-1
X82 ...	(3 PINS, BLACK)	under radiator	13-1	05-5
X85 ...	(3 PINS, BLACK)	rear LH side of engine compartment	11-1	05-5
X87 ...	(3 PINS, BLACK)	RH top of radiator	30-1	05-5
X105 .	(2 PINS, GRAY)	on underside of engine hood	16-2	
X106 .	(2 PINS, GRAY)	on underside of engine hood	16-2	
X107 .	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir		
X111 .	(2 PINS, BLACK)	rear LH side of engine compartment	09-1	
X113 .	(3 PINS, GRAY)	behind RH front wheel	13-3	06-3
X114 .	(3 PINS, GRAY)	behind LH front wheel	12-2	06-3
X118 .	(2 PINS, BLACK)	behind LH front wheel	12-2	
X121 .	(2 PINS, WHITE)	LH footwell	20-1	



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir		
X127	(4 PINS, BLACK)	front RH side of engine compartment	30-2	05-4
X128	(3 PINS, BLACK)	front LH side of engine compartment	11-2	02-5
X130	(2 PINS, GRAY)	near front LH headlight	29-2	
X131	(2 PINS, BLACK)	near front LH headlight	29-2	
X132	(2 PINS, BLACK)	on front LH wheel well	12-1	
X133	(2 PINS, BLACK)	on front LH wheel well	13-2	
X134	(2 PINS, BLACK)	near front RH headlight	29-3	
X135	(2 PINS, GRAY)	near front RH headlight	29-3	
X137	(3 PINS, BLACK)	front RH side of engine compartment	30-3	02-5
X142	(3 PINS, GRAY)	under LH rear of car, ASC		06-3
X142	(2 PINS, GRAY)	under LH rear of car, ABS	16-1	
X143	(3 PINS, GRAY)	under RH rear of car, ASC		06-3
X143	(2 PINS, GRAY)	under RH rear of car, ABS	15-3	
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	30-2	05-5
X165	GROUND	front RH side of engine compartment	04-2	
X166	GROUND	front LH side of engine compartment	05-1	
X170	GROUND	behind LH footwell speaker grille	07-2	
X256	(26 PINS, BLACK)	RH A-pillar	18-1	03-5
X257	(26 PINS, BLACK)	LH A-pillar	16-3	03-5
X271	(12 PINS, BLACK)	LH side of dash rear side of instrument cluster, A2w	20-2	01-3



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X275	(4 PINS, NATURAL)	under LH front seat	25-2	03-1
X279	(4 PINS, NATURAL)	under RH front seat	24-2	03-1
X285	(15 PINS, BLUE)	behind glove box	00-2	05-1
X295	(8 PINS, BLACK)	on steering column	19-2	03-3
X311	(3 PINS, BLACK)	in luggage compartment lid	28-1	01-1
X315	(2 PINS, BLACK)	in luggage compartment lid	28-1	
X316	(4 PINS, YELLOW)	center console near gearshift lever		07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-1	02-1
X319	(8 PINS, BLACK)	in LH side of luggage compartment behind trim panel		02-1
X322	(6 PINS, BLACK)	footwell, driver's side	19-1	03-6
X324	(4 PINS, YELLOW)	center console near gearshift lever		07-1
X333	(4 PINS, NATURAL)	rear of engine compartment below center of cowl		03-1
X336	(3 PINS, BLACK)	in upper RH A-pillar		01-1
X351	(3 PINS, BLACK)	RH B-pillar	26-1	01-1
X352	(3 PINS, BLACK)	LH B-pillar	27-1	01-1
X357	(2 PINS, WHITE)	near interior rear view mirror	28-2	
X371	(3 PINS, BLACK)	near front LH headlight	29-1	02-5
X372	(2 PINS, GRAY)	rear LH side of engine compartment	09-1	
X379	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X380	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X383	(2 PINS, BLACK)	on differential	15-2	
X389	(2 PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT		



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X390	(2 PINS, BLACK)	RIGHT FRONT AUXILIARY TURN LIGHT		
X400	(8 PINS, BLACK)	center console	23-2	02-1
X413	(3 PINS, BLACK)	HIGH LEVEL STOP LIGHT		01-1
X423	(1 PIN, ---)	below center console on rear of park brake lever		
X424	(1 PIN, ---)	in LH side of luggage compartment behind trim panel		
X494	GROUND	below center console	07-1	
X503	(12 PINS, BLACK)	LH side of dash	20-3	07-2
X504	(4 PINS, NATURAL)	LH side of dash	20-3	03-1
X511	(8 PINS, BLACK)	center console	22-1	02-1
X516	(5 PINS, BLACK)	center console		02-6
X521	(6 PINS, BLUE)	center console		04-5
X522	(3 PINS, NATURAL)	RH side of LH footwell		04-3
X531	(1 PIN, NATURAL)	center console	22-3	
X532	(2 PINS, BLACK)	center console	22-3	
X537	(3 PINS, BLACK)	REAR LEFT MID-HIGH RANGE SPEAKER		01-1
X538	(3 PINS, BLACK)	REAR RIGHT MID-HIGH RANGE SPEAKER		01-1
X539	(2 PINS, BLACK)	center console (radio and console removed)	38-1	
X605	(12 PINS, BLACK)	in LH side of luggage compartment behind trim panel	27-3	01-5
X606	(26 PINS, BLACK)	in LH side of luggage compartment behind trim panel	27-3	00-3
X623	(4 PINS, BLACK)	in driver's door	17-2	07-1
X624	(4 PINS, BLACK)	in passenger's door	18-3	07-1
X625	(6 PINS, BLACK)	in driver's door	17-2	08-2



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X641	(6 PINS, BLACK)	in passenger's door	18-2	07-4
X651	(6 PINS, YELLOW)	center console	23-1	04-5
X658	(6 PINS, YELLOW)	center console	23-1	04-5
X660	(6 PINS, BLACK)	LH front door behind door panel		07-4
X700	(1 PIN, ---)	behind RH footwell speaker grille	23-3	
X701	(1 PIN, ---)	behind LH footwell speaker grille		
X709	(2 PINS, BLACK)	underside of trunk lid, near license plate		
X710	(2 PINS, BLACK)	underside of trunk lid, near license plate		
X711	(2 PINS, BLACK)	in luggage compartment lid	28-1	
X712	(1 PIN, BLACK)	in luggage compartment		
X713	(2 PINS, BLACK)	under RH rear of car	15-3	
X726	(2 PINS, NATURAL)	under LH front seat	25-1	
X728	(2 PINS, BLACK)	under LH front seat	25-1	
X733	(4 PINS, BLACK)	under LH front seat	25-2	03-1
X734	(2 PINS, NATURAL)	under RH front seat	24-1	
X737	(2 PINS, BLACK)	under RH front seat	24-1	
X740	(4 PINS, BLACK)	under RH front seat	24-2	03-1
X742	(2 PINS, YELLOW)	in passenger's door		
X744	(4 PINS, GRAY)	in passenger's door	18-3	05-4
X746	(3 PINS, YELLOW)	in passenger's door	18-3	10-5
X747	(2 PINS, YELLOW)	in driver's door	17-1	
X749	(2 PINS, GRAY)	in driver's door	17-2	



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X753	(3 PINS, YELLOW)	in driver's door	17-2	10-5
X766	(2 PINS, BLACK)	LH front of vehicle		
X767	(2 PINS, BLACK)	RH front of vehicle		
X768	(2 PINS, BLACK)	on front LH wheel well	12-1	
X769	(2 PINS, BLACK)	RH front of wheel well	13-2	
X770	(2 PINS, YELLOW)	on front LH wheel well (4-cylinder)	12-1	
X770	(2 PINS, YELLOW)	in RH front bumper (6-cylinder)	35-2	
X771	(2 PINS, NATURAL)	RH side of LH footwell	21-2	
X778	(4 PINS, BLACK)	in LH front seat belt buckle		07-1
X782	(3 PINS, ORANGE)	behind glove box above	00-3	07-5
X783	(3 PINS, ORANGE)	underside of steering column	38-3	07-5
X861	GROUND	LH side of engine compartment	05-1	
X898	(8 PINS, BLACK)	under rear oddments compartment	26-2	08-3
X904	(4 PINS, BLACK)	RH side of LH footwell	21-1	03-1
X905	(7 PINS, BLACK)	center of dash	21-3	09-3
X1014	(1 PIN, BLACK)	center console	22-3	
X1098	(3 PINS, BLACK)	LH side of dash	20-3	01-1
X1116	GROUND	in LH side of luggage compartment	06-3	
X1148	(2 PINS, BLACK)	on front LH wheel well	12-1	
X1161	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X1166	GROUND	behind glove box	04-3	
X1170	(42 PINS, BLACK)	behind glove box	00-1	09-4
X1171	(55 PINS, NATURAL)	behind glove box	00-3	11-3

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1176	(25 PINS, BLACK)	rear LH side of engine compartment	35-3	04-4
X1178	(2 PINS, WHITE)	center console	27-2	
X1193	(3 PINS, BLACK)	center console	22-1	01-1
X1213	(2 PINS, BLACK)	center console		
X1265	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X1266	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X1380	(1 PIN, ---)	behind RH footwell speaker grille	23-3	
X1381	(1 PIN, ---)	behind LH footwell speaker grille		
X1441	GROUND	below center console	07-3	
X1517	(6 PINS, BLACK)	RH side of LH footwell	21-2	09-2
X1588	(2 PINS, BLACK)	below LH side of dash		
X1652	(5 PINS, BLACK)	behind glove box		12-1
X1659	(15 PINS, YELLOW)	behind glove box	00-1	05-1
X1883	(2 PINS, YELLOW)	LH front door		
X1884	(2 PINS, YELLOW)	RH front door		
X1885	(3 PINS, BLACK)	under LH front seat		12-4
X1886	(3 PINS, BLACK)	under RH front seat		12-4
X1890	(3 PINS, BLACK)	under radiator		05-5
X5115	(2 PINS, BLACK)	center console (radio and console removed)	38-1	
X6000	(88 PINS, NATURAL)	rear RH side of engine compartment in E-Box		00-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment		04-1
X6031	(12 PINS, BLACK)	rear LH side of engine compartment	08-1	01-6
X6091	(30 PINS, BLACK)	rear of engine compartment on engine bulkhead	10-1	01-2

03/98

7000.0-18

1998



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6101	(2 PINS, BLACK)	top center of engine		
X6102	(2 PINS, BLACK)	top center of engine		
X6103	(2 PINS, BLACK)	top center of engine		
X6104	(2 PINS, BLACK)	top center of engine		
X6105	(2 PINS, BLACK)	top center of engine		
X6106	(2 PINS, BLACK)	top center of engine		
X6120	(2 PINS, BLACK)	LH side of engine compartment (4-cylinder)	08-2	
X6120	(2 PINS, BLACK)	LH side of engine compartment (6-cylinder)	34-2	
X6130	(3 PINS, BLACK)	front of engine (4-cylinder)	10-3	10-2
X6130	(3 PINS, BLACK)	front of engine (6-cylinder)		10-2
X6131	(2 PINS, BLACK)	front LH side of engine compartment	11-3	
X6133	(2 PINS, BLACK)	rear RH side of engine compartment (6-cylinder)	31-2	
X6133	(2 PINS, BLACK)	LH side of engine compartment (4-cylinder)	37-2	
X6150	(10 PINS, BLACK)	rear RH side of engine compartment		10-1
X6150	(7 PINS, BLACK)	rear RH side of engine compartment	31-1	04-2
X6151	(3 PINS, GRAY)	top RH side of engine (4-cylinder)		09-5
X6151	(3 PINS, BLACK)	top RH side of engine (6-cylinder)		09-5
X6152	(3 PINS, GRAY)	top RH side of engine (4-cylinder)		09-5
X6152	(3 PINS, BLACK)	top RH side of engine (6-cylinder)		09-5
X6153	(3 PINS, BLACK)	top RH side of engine (4-cylinder)		09-5
X6153	(3 PINS, GRAY)	top RH side of engine (6-cylinder)		09-5
X6154	(3 PINS, GRAY)	top RH side of engine (4-cylinder)		09-5
X6154	(3 PINS, BLACK)	top RH side of engine (6-cylinder)		09-5

03/98

7000.0-19

1998



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6155	(3 PINS, BLACK)	top RH side of engine		09-5
X6156	(3 PINS, BLACK)	top RH side of engine		09-5
X6163	(2 PINS, BLACK)	LH side of engine compartment (6-cylinder)	31-3	
X6163	(2 PINS, BLACK)	LH side of engine compartment (4-cylinder)	37-3	
X6203	(3 PINS, BLACK)	front of engine below intake manifold	33-1	10-2
X6204	(3 PINS, BLACK)	front of engine below intake manifold	33-1	10-2
X6205	(2 PINS, BLACK)	front LH side of engine compartment (4-cylinder)	11-2	
X6205	(2 PINS, BLACK)	front LH side of engine compartment (6-cylinder)	34-1	
X6207	(4 PINS, BLACK)	LH side of engine compartment	33-3	10-4
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		06-4
X6210	(4 PINS, BLACK)	under center of car	35-1	06-1
X6217	(4 PINS, GRAY)	front LH side of engine compartment	11-3	03-2
X6220	(4 PINS, BLACK)	under center of car	35-1	06-1
X6231	(2 PINS, BLACK)	RH front of engine (4-cylinder)	10-2	
X6231	(2 PINS, BLACK)	front of engine (6-cylinder)	32-2	
X6232	(4 PINS, BLACK)	RH front of engine	10-2	06-1
X6240	(4 PINS, BLACK)	LH side of engine near starter (4-cylinder)	02-2	06-1
X6240	(4 PINS, BLACK)	LH side of engine (6-cylinder)	33-1	06-1
X6247	(2 PINS, BLACK)	under LH rear of car	36-1	
X6252	(3 PINS, BLACK)	front of engine (4-cylinder)	10-3	06-4
X6252	(3 PINS, BLACK)	front of engine (6-cylinder)	33-3	10-2
X6256	(4 PINS, BLACK)	rear of engine compartment		10-3
X6263	(2 PINS, BLACK)	under LH center of car	36-2	

03/98

7000.0-20

1998



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6275	(2 PINS, BLACK)	top center of engine	31-3	
X6300	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-4
X6301	(9 PINS, BLACK)	below LH side of dash		03-4
X6304	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box (6-cylinder)		03-4
X6304	(9 PINS, BLACK)	rear LH side of engine compartment (4-cylinder)		03-4
X6326	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-4
X6430	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6431	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6432	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6454	GROUND	rear RH side of engine compartment (4-cylinder)	04-1	
X6454	GROUND	rear RH side of engine compartment (6-cylinder)	04-2	
X6455	GROUND	rear RH side of engine compartment	04-2	
X6456	GROUND	rear RH side of engine compartment (4-cylinder)	04-1	
X6456	GROUND	rear RH side of engine compartment (6-cylinder)	06-1	
X6500	(6 PINS, BLACK)	under rear storage compartment	26-2	06-5
X6501	(3 PINS, BLACK)	under rear storage compartment		02-5
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	02-3	
X6510	CABLE SOCKET STARTER TERMINAL 50	rear LH side of engine compartment at starter	02-2	
X6511	CABLE SOCKET STARTER TERMINAL 30h	rear LH side of engine compartment at starter		
X6512	CABLE SOCKET STARTER TERMINAL 30h	rear LH side of engine compartment at starter	02-2	



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6524	(3 PINS, BLACK)	front LH side of engine compartment		10-2
X6550	(2 PINS, BLACK)	under LH center of car	34-3	
X7509	CABLE SOCKET ALTERNATOR TERMINAL D+	front LH side of engine compartment	02-3	
X8500	(88 PINS, NATURAL)	rear RH side of engine compartment in E-Box		00-1
X8503	(6 PINS, YELLOW)	center console	22-1	04-5
X8505	(16 PINS, BLACK)	on RH side of transmission	15-1	11-4
X8507	(1 PIN, BLACK)	behind gas pedal	19-3	
X8511	(2 PINS, BLACK)	LH side of transmission	14-2	
X8516	(2 PINS, BLACK)	LH side of transmission		
X9633	GROUND	behind LH footwell speaker grille	07-2	
X9990	(3 PINS, BLACK)	underside of LH front seat		11-1
X9991	(10 PINS, BLACK)	underside of LH front seat		12-2
X9994	(3 PINS, BLACK)	underside of RH front seat		11-1
X9995	(10 PINS, BLACK)	underside of RH front seat		12-2
X9997	(2 PINS, ORANGE)	behind steering wheel		
X10010	GROUND	behind glove box	04-3	
X10013	(2 PINS, NATURAL)	behind steering wheel		
X10054	(8 PINS, BLACK)	RH side of LH footwell	21-1	02-1
X10065	(2 PINS, WHITE)	LH footwell	14-1	
X10088	(2 PINS, BLACK)	front RH side of engine compartment	30-3	
X10094	(2 PINS, BLACK)	front of engine	35-3	



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10098	(1 PIN, NATURAL)	Power Distribution Box rear LH side of engine compartment		
X10099	(1 PIN, ---)	Power Distribution Box rear LH side of engine compartment		
X10182	(18 PINS, BLACK)	behind glove box		07-3
X10214	(3 PINS, BLACK)	under LH front seat		10-5
X10215	(3 PINS, BLACK)	under RH front seat		10-5
X10216	(3 PINS, BLACK)	in LH front seat belt buckle	38-2	07-5
X10217	(3 PINS, BLACK)	in RH front seat belt buckle	38-2	07-5
X10218	(3 PINS, NATURAL)	under RH front seat	24-2	01-1
X10239	(3 PINS, BLACK)	front of engine (6-cylinder)	33-3	10-2
X10239	(3 PINS, BLACK)	front of engine (4-cylinder)	37-3	10-2
X10244	(1 PIN, BLACK)	behind glove box	24-3	
X10245	(12 PINS, BLACK)	center console	01-3	01-3
X10246	(12 PINS, BLACK)	in rear left speaker box	26-3	01-3
X10260	(3 PINS, NATURAL)	near steering column	01-2	01-1
X10262	(9 PINS, BLACK)	below LH side of dash		03-4
X10263	(6 PIN, BLACK)	center console		04-5
X10299	(4 PINS, BLACK)	RH rear wheel well	17-3	03-1
X11104	(1 PIN, ---)	near interior rear view mirror	28-2	
X11105	(1 PIN, ---)	near interior rear view mirror	28-2	
X11106	(1 PIN, ---)	near interior rear view mirror	28-2	
X11209	(4 PINS, BLACK)	near RH rear wheel well	17-3	03-1
X11287	CONNECTORS SOLDERED UP	center of dash		



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X11379	(3 PINS, BLACK)	RH top of radiator	30-1	05-5
X13004	GROUND	behind glove box	04-3	
X13006	GROUND	in LH side of luggage compartment	05-3	
X13016	GROUND	in LH side of luggage compartment	05-2	
X13017	(2 PINS, BLUE)	hard top		
X13025	(12 PINS, BLACK)	behind glove box	24-3	02-4
X13032	GROUND	under rear storage compartment	06-2	
X13045	(6 PINS, NATURAL)	center console		04-5
X13146	(8 PINS, BLACK)	in LH side of luggage compartment	25-3	02-1
X13233	(1 PIN, BLACK)	center of dash behind center console		
X13252	(15 PINS, BLACK)	behind glove box		05-1
X13253	(26 PINS, YELLOW)	behind glove box		00-3
X13254	(26 PINS, YELLOW)	behind glove box		00-3
X13287	(1 PIN, WHITE)	center of dash behind center console		
X18080	(1 PIN, BLACK)	in LH side of luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-2
X18170	GROUND	below center console	07-1	
X18180	(3 PINS, BLACK)	in RH rear side of luggage compartment		01-1
X18190	(3 PINS, BLACK)	in driver's door	17-2	10-5
X18196	(10 PINS, BLACK)	LH A-pillar	16-3	02-3
X18198	(10 PINS, BLACK)	RH A-pillar	18-1	02-3
X18279	(2 PINS, GRAY)	in driver's door		



COMPONENT LOCATION CHART

Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18280	(2 PINS, GRAY)	in passenger's door		
X18333	(2 PINS, BLACK)	on instrument cluster		
X18349	(8 PINS, BLACK)	center console	01-3	08-3
X18350	(6 PINS, BLACK)	RH side of LH footwell	21-2	03-6
X18363	(9 PINS, BLACK)	in LH side of luggage compartment		03-4
X18364	(9 PINS, BLACK)	in LH side of luggage compartment		03-4
X18516	(3 PINS, BLACK)	in passenger's door	18-3	10-5
X18518	(4 PINS, BLACK)	in RH front seat belt buckle		07-1
X18520	(10 PINS, ---)	center console RADIO		
X18521	(10 PINS, ---)	RH side of luggage compartment CD CHANGER		
X18774	(4 PINS, NATURAL)	in rear speaker box		03-1
X18983	(2 PINS, BLACK)	center of dash		
X18984	(2 PINS, BLACK)	center of dash	21-3	
X18994	(3 PINS, YELLOW)	rear LH side of engine compartment below		01-1
X19527	(16 PINS, BLACK)	center console right	28-3	08-1
X19528	(3 PINS, NATURAL)	under rear storage compartment		02-5
X19565	(6 PINS, BLACK)	center console		12-3
X23146	(2 PINS, BLACK)	in LH side of luggage compartment	25-3	
X62001	(4 PINS, BLACK)	under center of car	14-3	06-1
X62002	(4 PINS, BLACK)	under center of car		06-1
X90260	(3 PINS, BLACK)	near steering column	01-2	01-1
Y1w	ABS HYDRAULIC UNIT	rear LH side of engine compartment (4-cylinder)	08-2	

09/97

7000.0-25

1998



COMPONENT LOCATION CHART

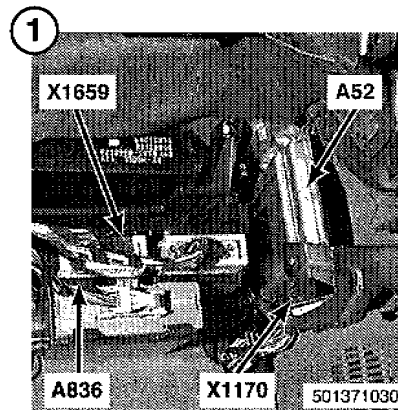
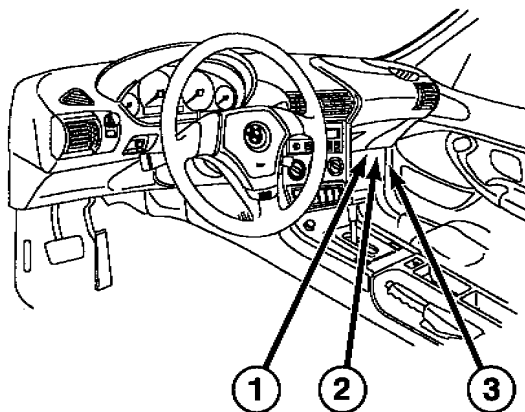
Z3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y1w ..	ABS HYDRAULIC UNIT	rear LH side of engine compartment (6-cylinder)	35-3	
Y2	AIR CONDITIONING COMPRESSOR	front RH side of engine compartment		
Y4z ...	WATER VALVE	rear LH side of engine compartment	11-1	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19 ...	SHIFT-LOCK	center console	27-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	on cylinder head		
Y6102	CYL. 2 FUEL INJECTION VALVE	on cylinder head		
Y6103	CYL. 3 FUEL INJECTION VALVE	on cylinder head		
Y6104	CYL. 4 FUEL INJECTION VALVE	on cylinder head		
Y6105	CYL. 5 FUEL INJECTION VALVE	on cylinder head		
Y6106	CYL. 6 FUEL INJECTION VALVE	on cylinder head		
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment (4-cylinder)	08-2	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment (6-cylinder)	34-2	
Y6130	IDLE SPEED CONTROL VALVE	front of engine (4-cylinder)	10-3	
Y6130	IDLE SPEED CONTROL VALVE	front of engine (6-cylinder)		
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	front of engine	11-3	
Y6133	AIR PUMP	LH side of engine compartment (4-cylinder)	37-2	
Y6133	AIR PUMP	rear RH side of engine compartment (6-cylinder)	31-2	
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment (6-cylinder)	33-2	
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment (4-cylinder)	37-3	

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

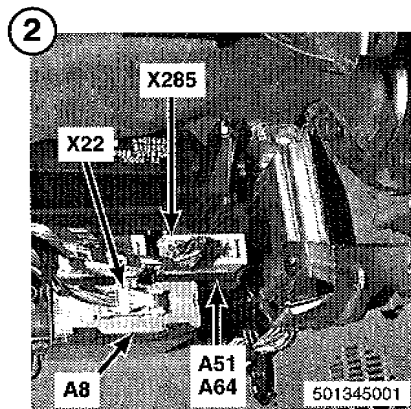
Z3



A52
SLIP CONTROL
MODULE
(ABS/ASC)

A836
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)

X1170
X1659

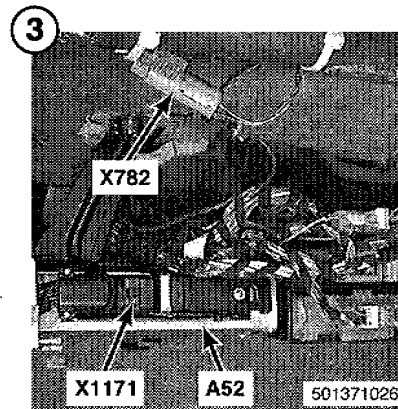


A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

X22
X285

A51
WIPER/WASHER
MODULE

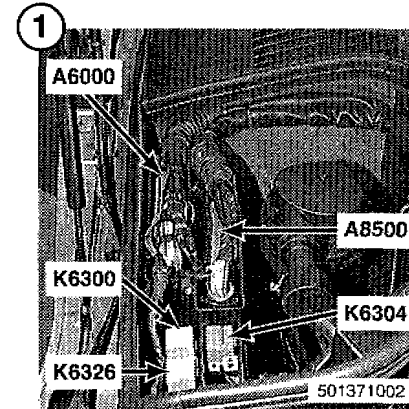
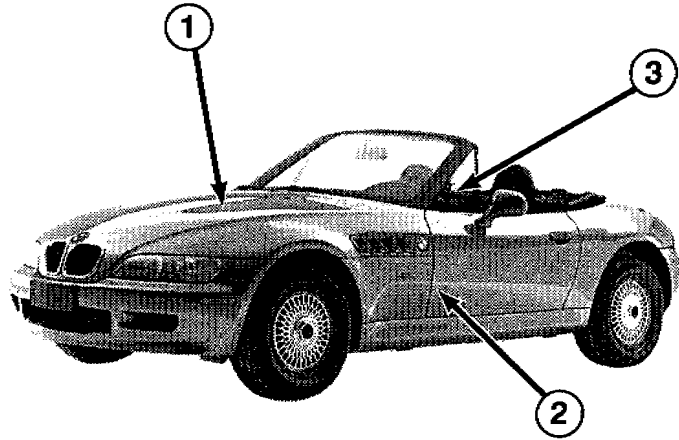
A64
WIPER/WASHER
MODULE (LOW II)



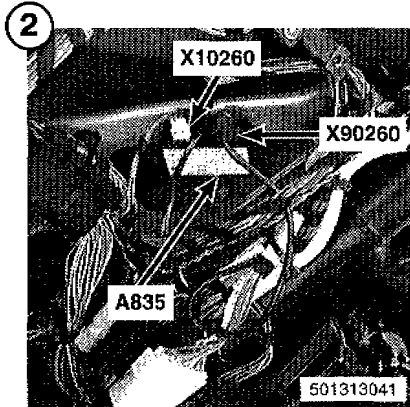
A52
SLIP CONTROL
MODULE
(ABS/ASC)

X782
X1171

COMPONENT LOCATION VIEWS
ELECTRICAL CONTROL MODULE LOCATIONS

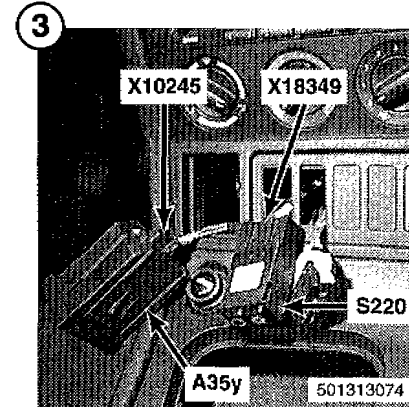


- A6000 ENGINE CONTROL MODULE (DME)
- A8500 TRANSMISSION CONTROL MODULE (EGS)
- K6300 ENGINE CONTROL MODULE RELAY
- K6304 SECONDARY AIR PUMP RELAY
- K6326 UNLOADER RELAY, TERMINAL 15



- A835 TRANSMITTER MODULE (EWS II)

- X10260
- X90260



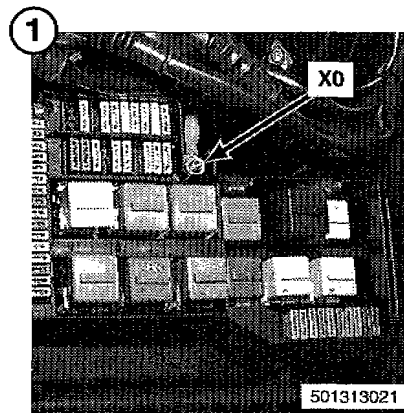
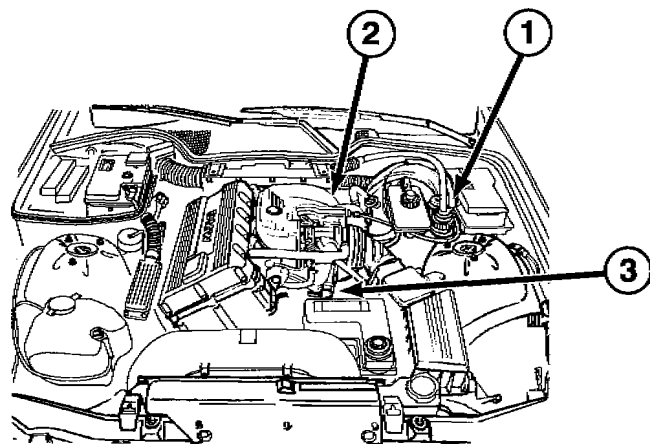
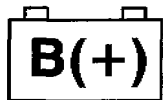
- A35y BOARD COMPUTER (BC-LOW)
- S220 AIR CONDITIONING/ RECIRCULATING SWITCH ASSEMBLY

- X10245
- X18349



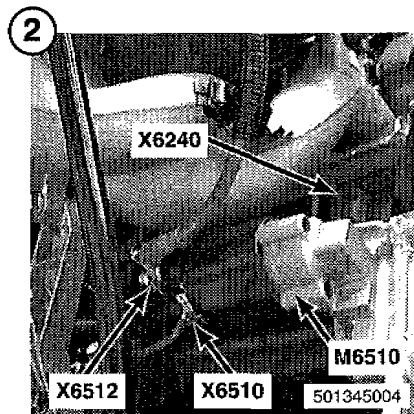
COMPONENT LOCATION VIEWS

Z3



X0
B+ JUNCTION
POINT

501313021



M6510
STARTER

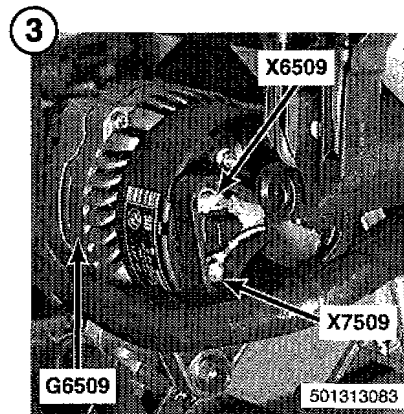
X6240
X6510
X6512

M6510

X6512

X6510

501345004



G6509
GENERATOR

X6509
X7509

X6509

X7509

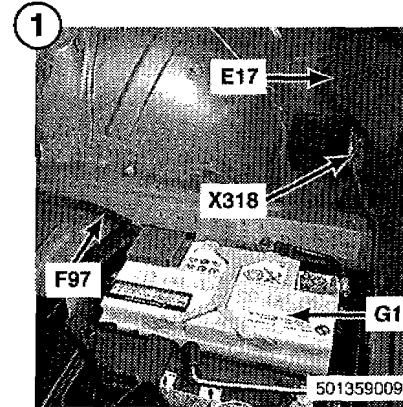
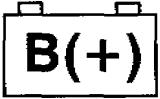
G6509

501313083



COMPONENT LOCATION VIEWS

Z3

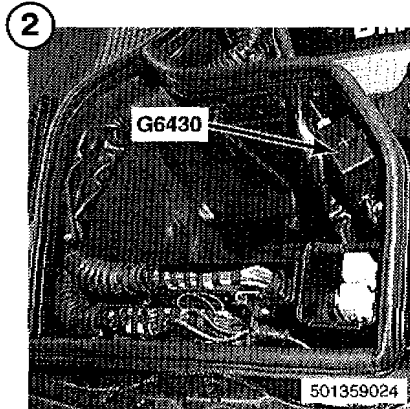


E17
RIGHT REAR LIGHT
ASSEMBLY

X318

F97
FUSIBLE LINK

G1
BATTERY

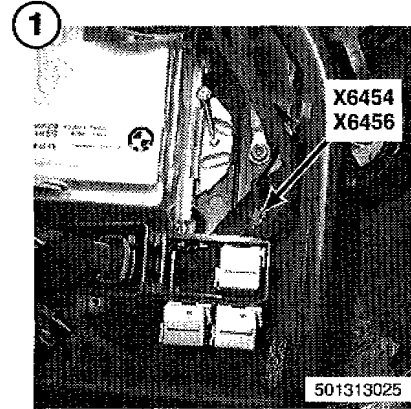
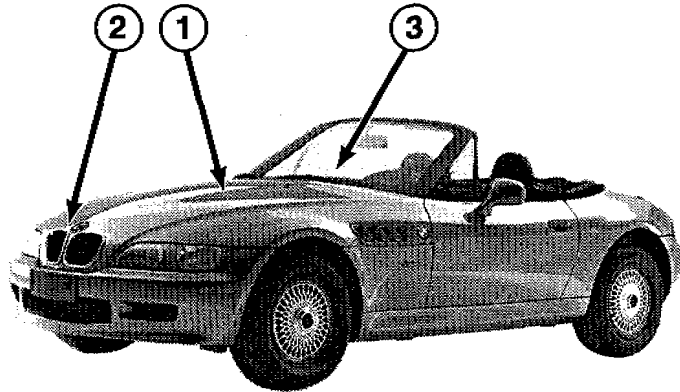
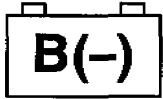


G6430
B+ JUMP START
JUNCTION POINT



COMPONENT LOCATION VIEWS

Z3

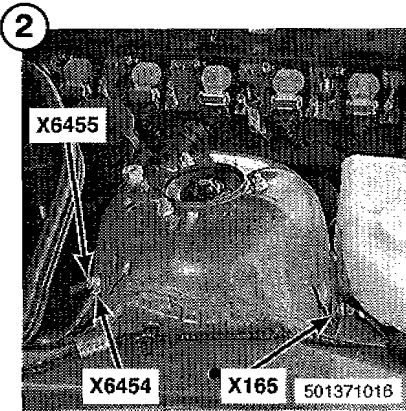


X6454
GROUND

X6454
X6456

X6458
GROUND

501313025



2

X165
GROUND

X6455

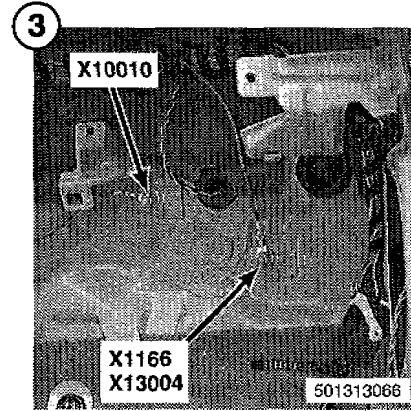
X6454
GROUND

X6455
GROUND

X6454

X165

501371018



3

X1166
GROUND

X10010

X10010
GROUND

X13004
GROUND

X1166
X13004

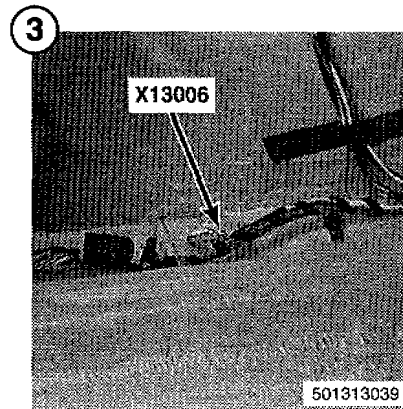
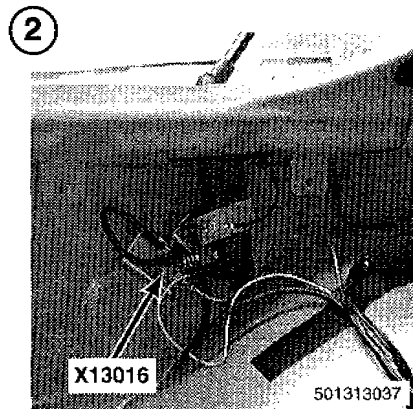
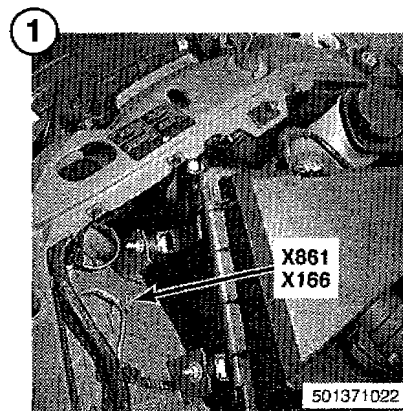
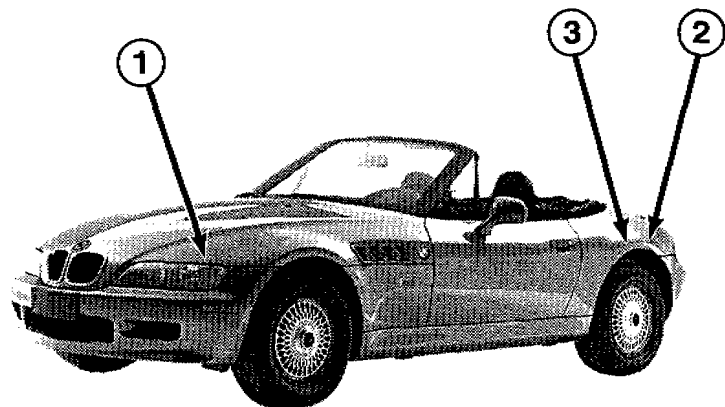
501313066

BMW
3

COMPONENT LOCATION VIEWS

Z3

B(-)

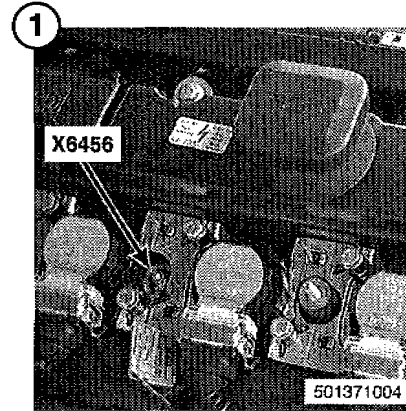
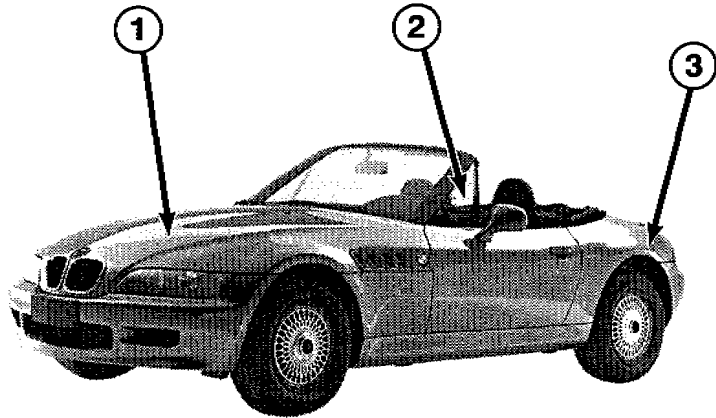
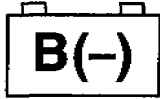




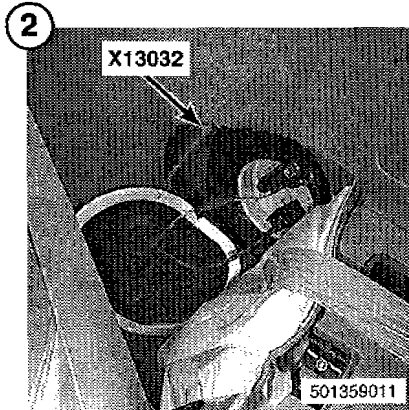
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Z3

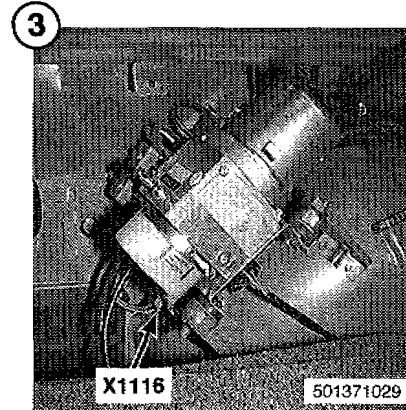
COMPONENT LOCATION VIEWS



X6456
GROUND



X13032
GROUND



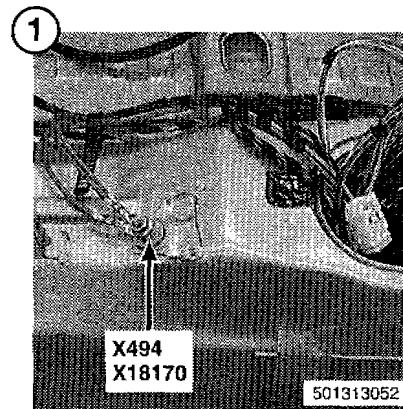
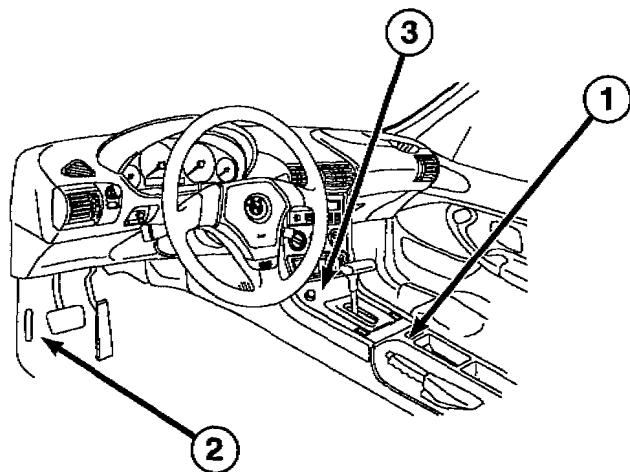
X1116
GROUND

BMW
3

Z3

B(-)

COMPONENT LOCATION VIEWS

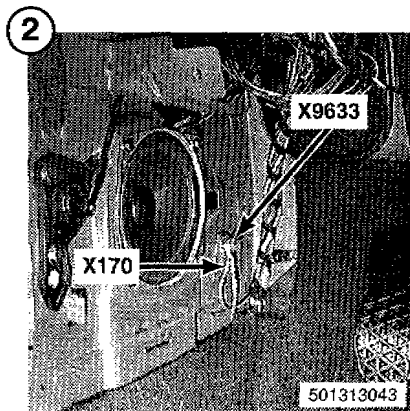


X494
GROUND

X18170
GROUND

X494
X18170

501313052



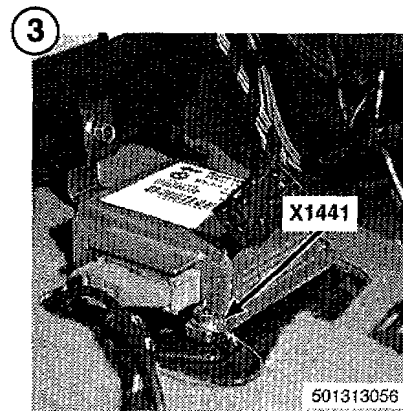
X170
GROUND

X9633
GROUND

X170

X9633

501313043

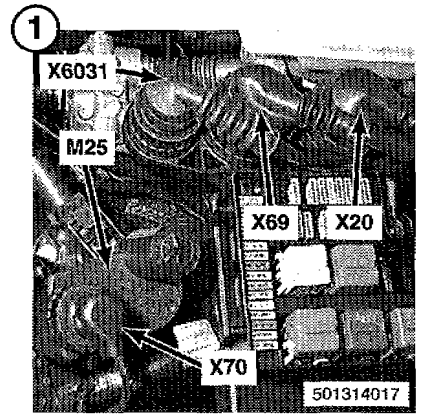
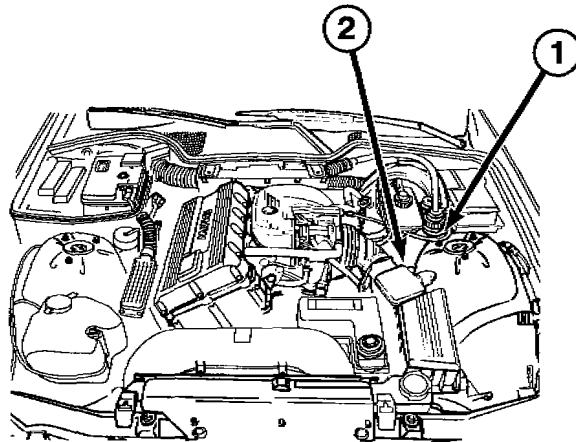


X1441
GROUND

X1441

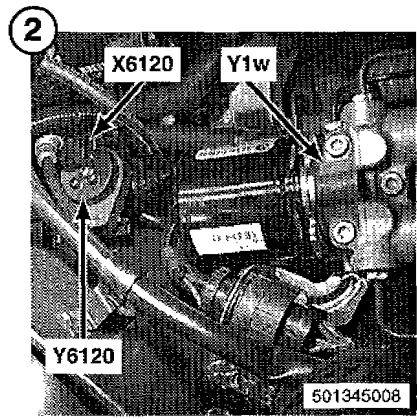
501313056

COMPONENT LOCATION VIEWS



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X20
X69
X70
X6031



Y1w
ABS HYDRAULIC
UNIT

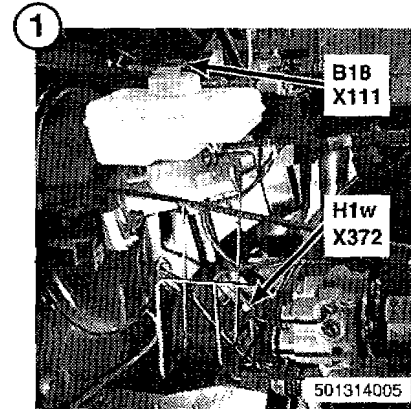
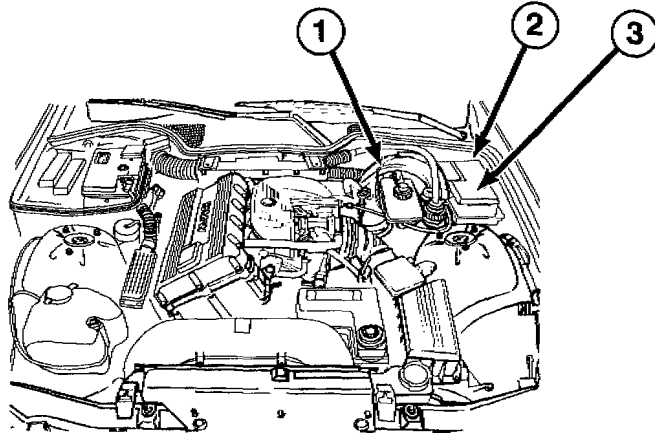
Y6120
EVAPORATIVE
EMISSION VALVE

X6120



Z3

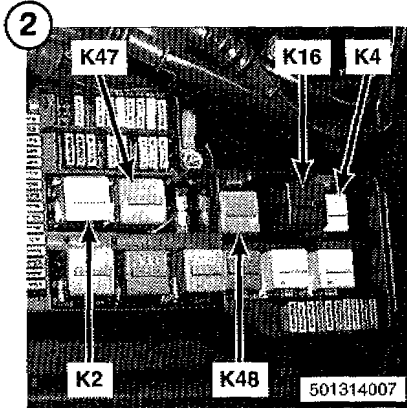
COMPONENT LOCATION VIEWS



B18
BRAKE FLUID
LEVEL SWITCH

H1w
ANTI-THEFT
HORN (ALPINE)

X111
X372



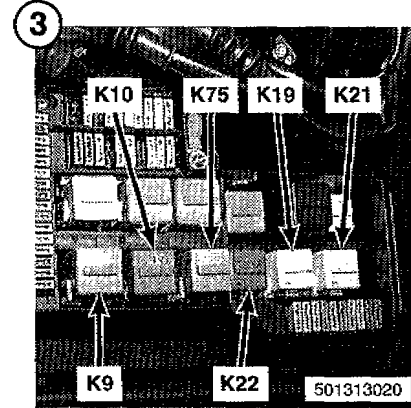
K2
HORN RELAY

K47
FRONT FOG LIGHT
RELAY

K4
BLOWER RELAY

K48
LOW BEAM LIGHT
RELAY

K16
HAZARD FLASHER
RELAY



K9
UNLOADER RELAY,
TERMINAL 15

K21
NORMAL SPEED
RELAY

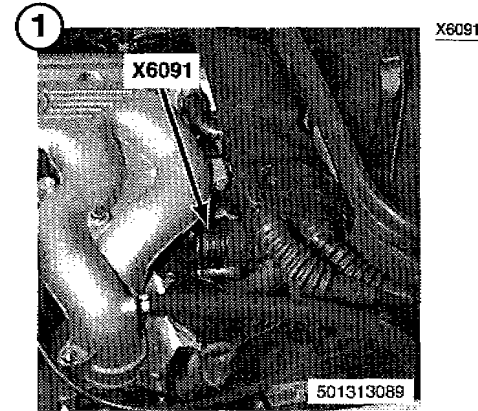
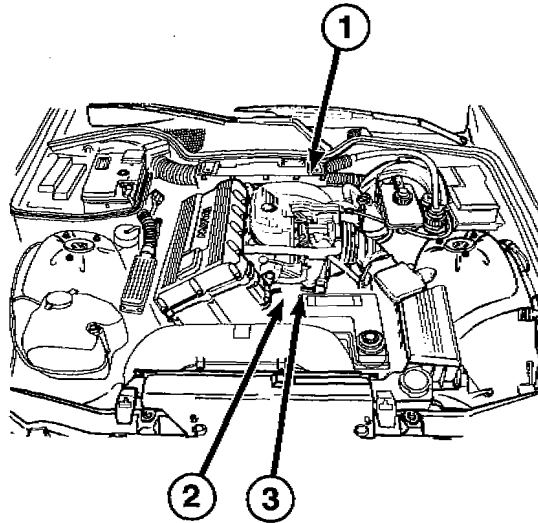
K10
ABS RELAY

K22
HIGH SPEED
RELAY

K19
COMPRESSOR
CONTROL RELAY

K75
ABS PUMP MOTOR
RELAY

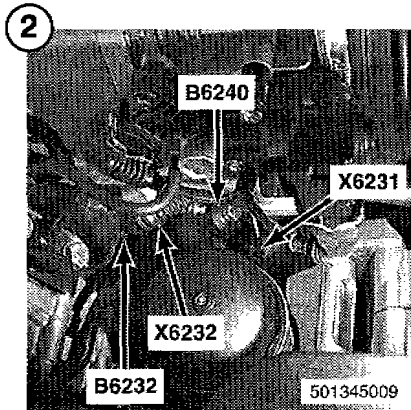
COMPONENT LOCATION VIEWS



X6091

X6091

501313089



B6232
ENGINE COOLANT
TEMPERATURE
SENSOR

B6240
KNOCK SENSOR

X6231
X6232

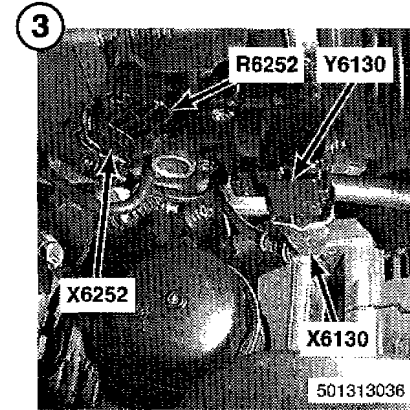
B6240

X6231

X6232

B6232

501345009



R6252
THROTTLE
POSITION SENSOR

Y6130
IDLE SPEED
CONTROL VALVE

X6130
X6252

R6252

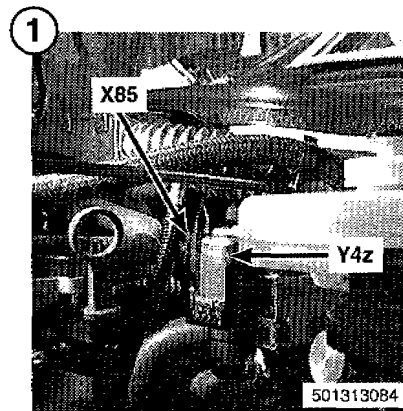
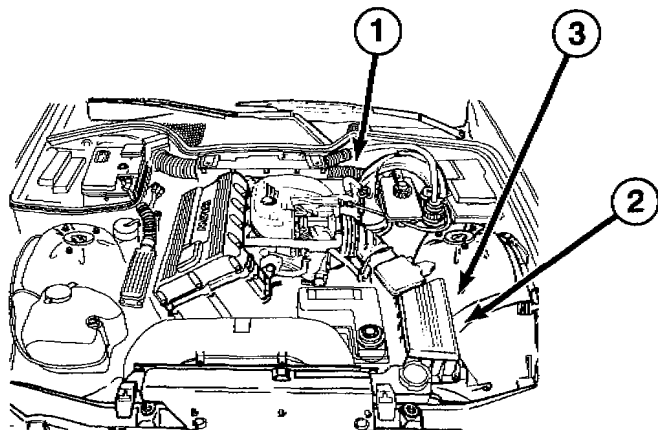
Y6130

X6252

X6130

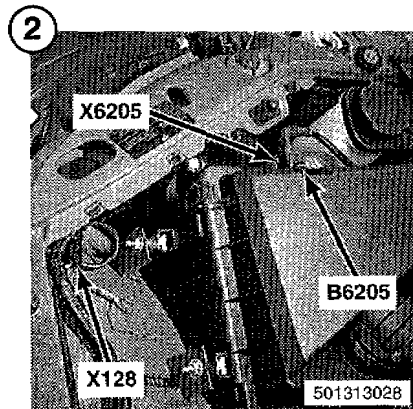
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COMPONENT LOCATION VIEWS



Y4z
WATER VALVE

X85



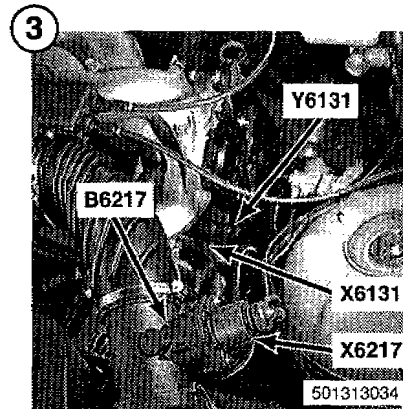
B6205
INTAKE AIR
TEMPERATURE
SENSOR

X128
X6205

B6205

X128

501313028



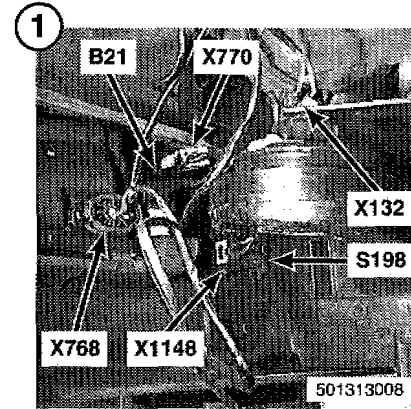
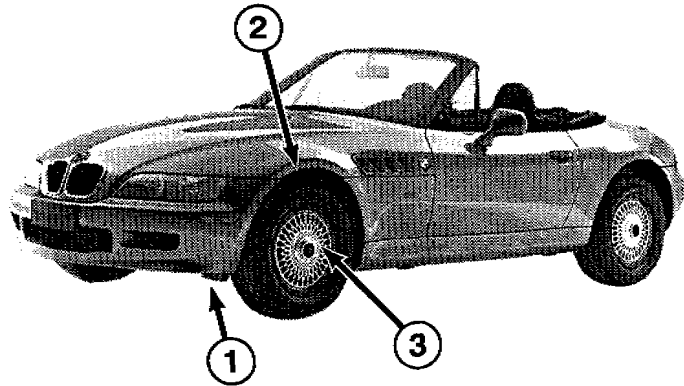
B6217
HOT FILM AIR
MASS METER

Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE

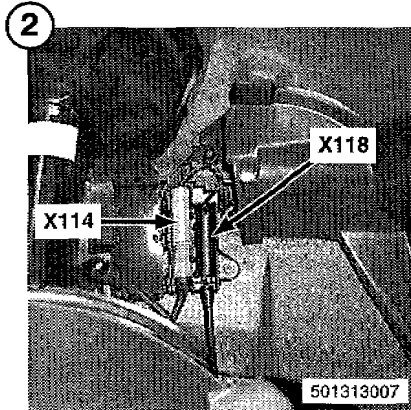
X6131
X6217

501313034

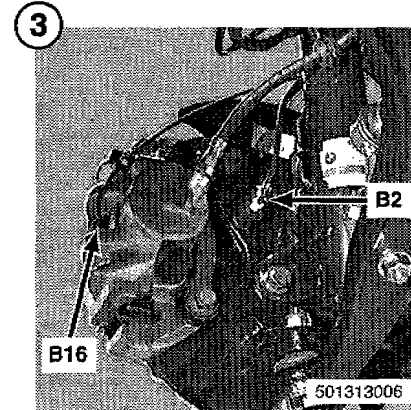
COMPONENT LOCATION VIEWS



- B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR
- S198
JET HEATER
THERMOSWITCH
- X132
- X768
- X770
- X1148

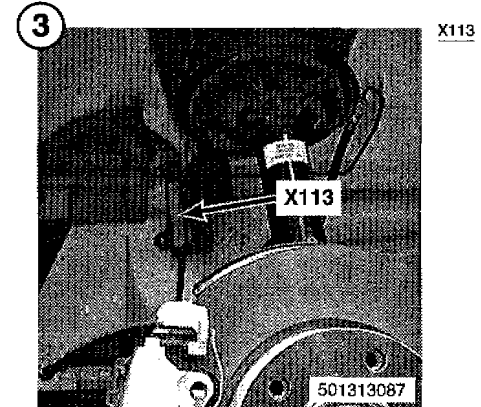
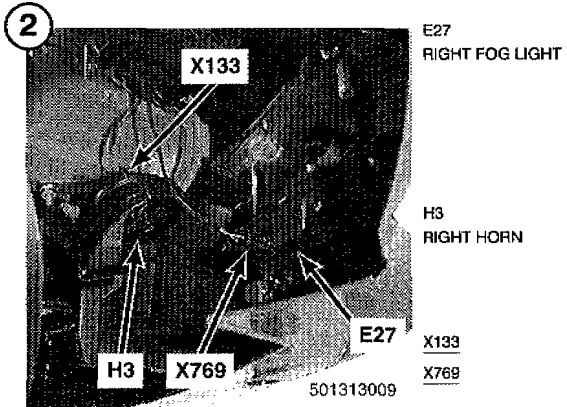
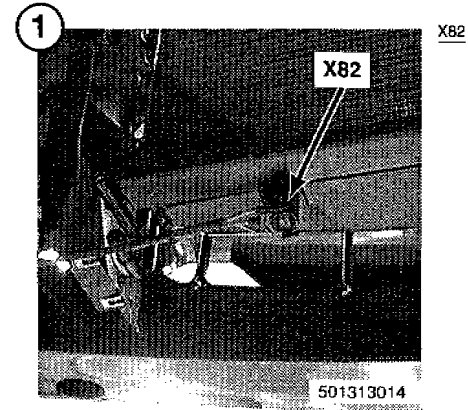
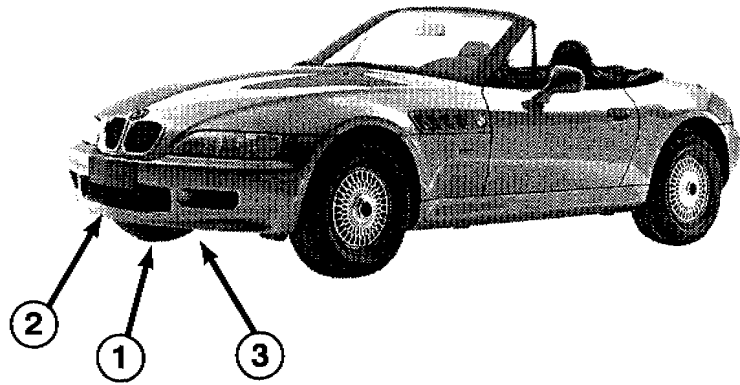


- X114
- X118

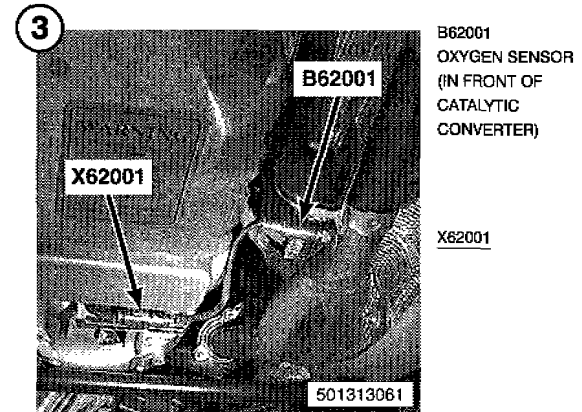
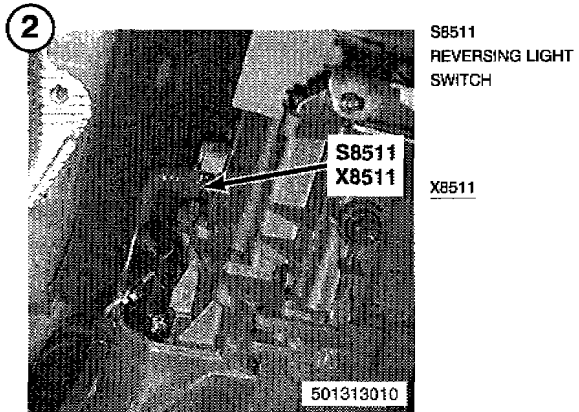
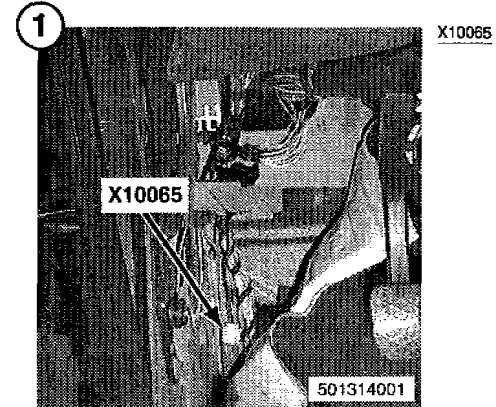
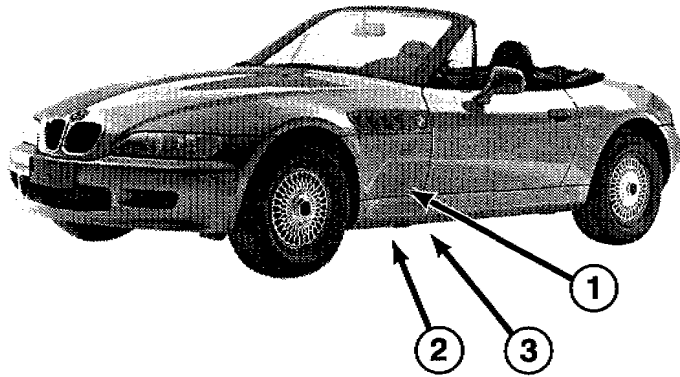


- B2
LEFT FRONT
SPEED SENSOR -
ABS
- B16
- B2
LEFT FRONT
BRAKE PAD
SENSOR

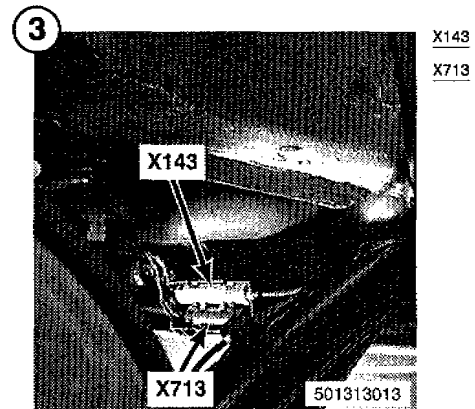
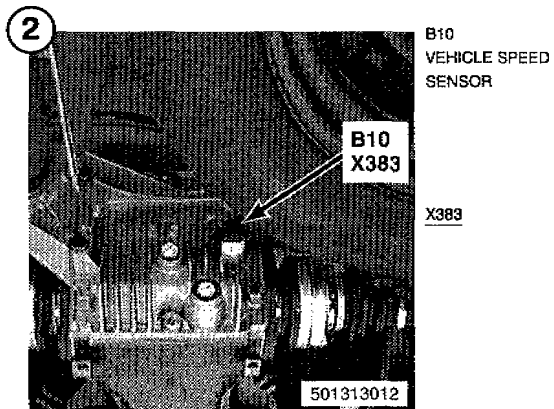
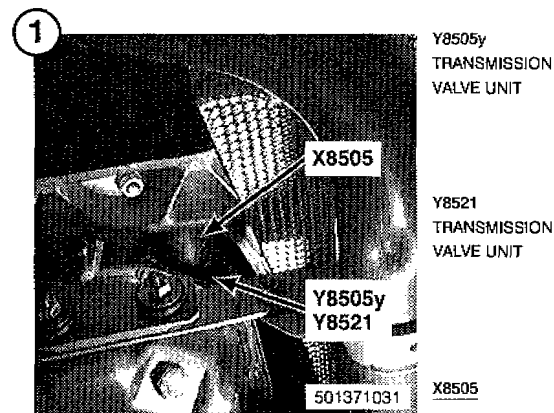
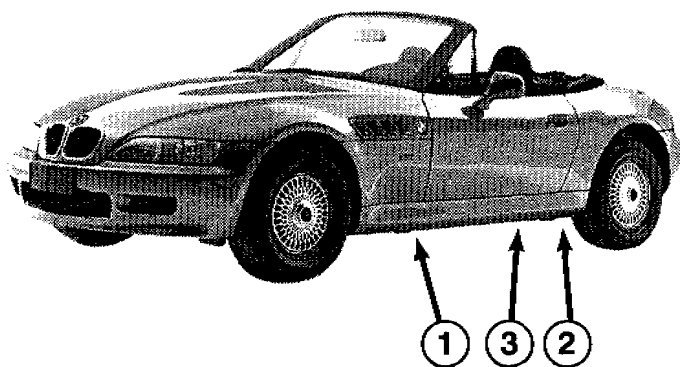
COMPONENT LOCATION VIEWS

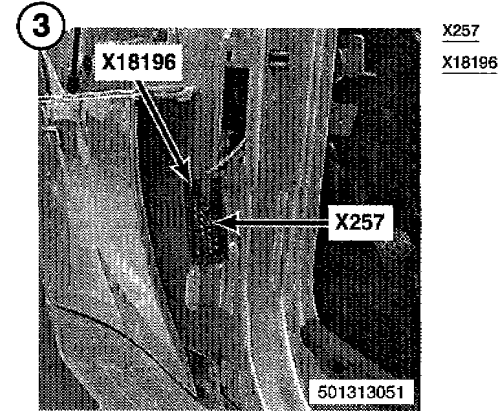
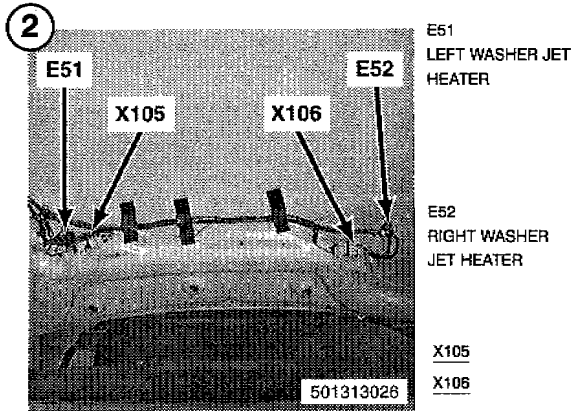
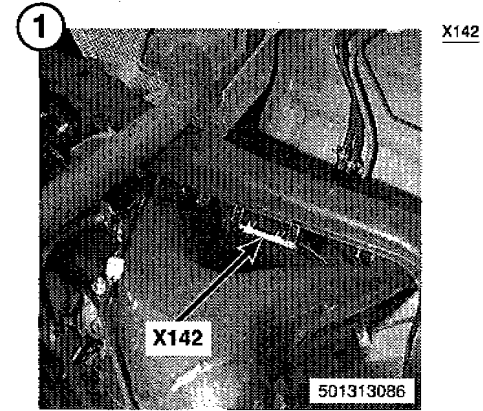
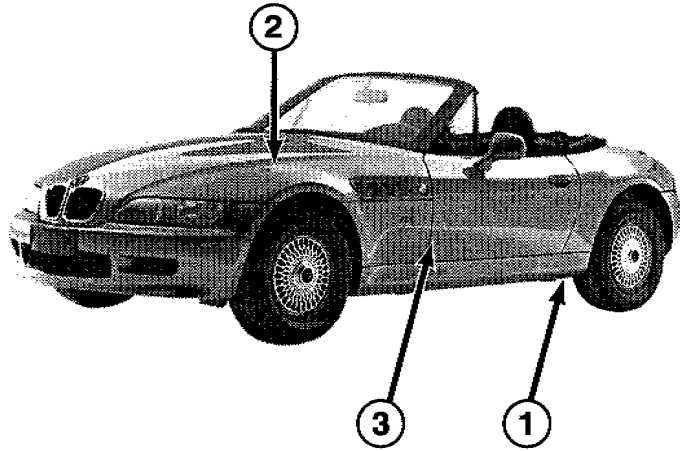


COMPONENT LOCATION VIEWS

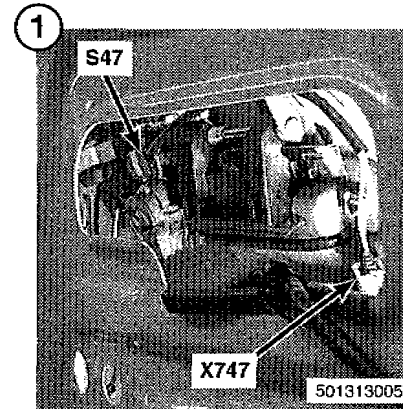
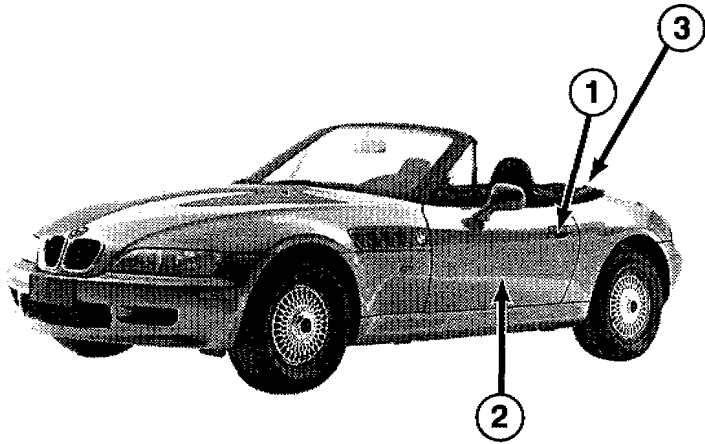


COMPONENT LOCATION VIEWS





COMPONENT LOCATION VIEWS

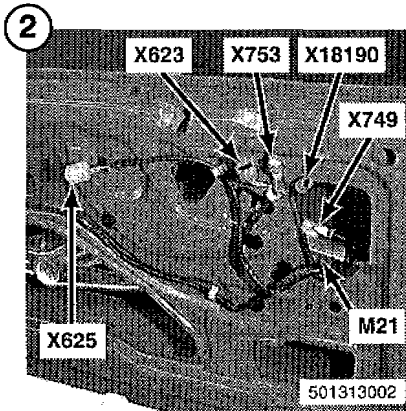


S47
DRIVER'S DOOR
LOCK SWITCH

X747

X747

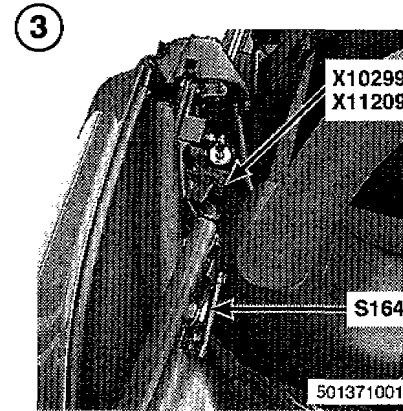
501313005



M21
DRIVER'S WINDOW
MOTOR

X623
X625
X749
X753
X18190

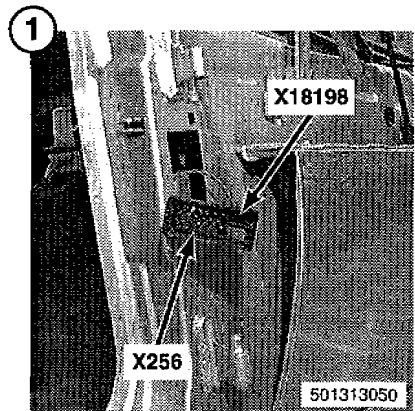
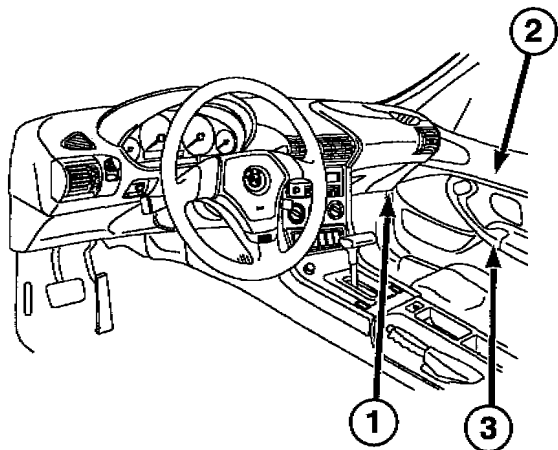
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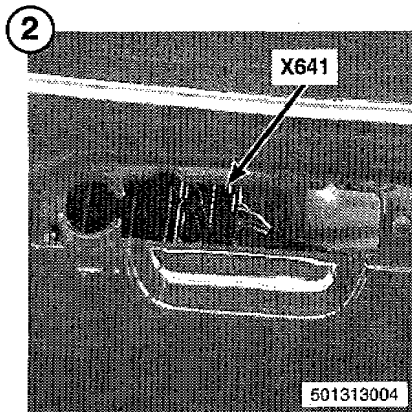
S164
CONVERTIBLE TOP
END-POSITION
MICRO SWITCH

X10299
X11209

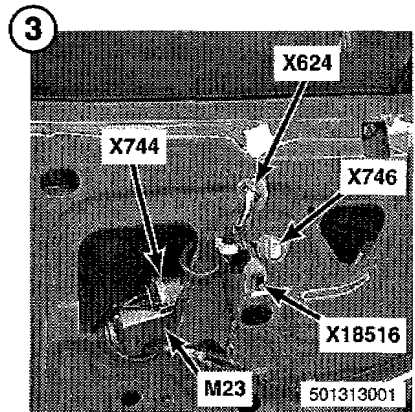
501371001



X256
X18198



X641



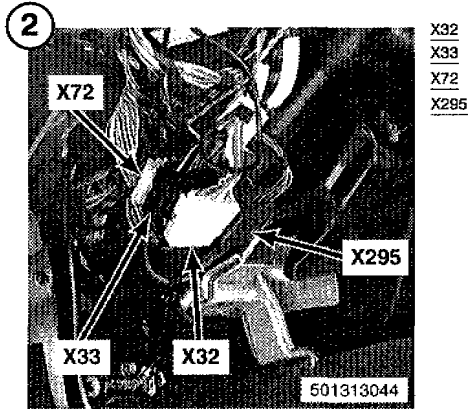
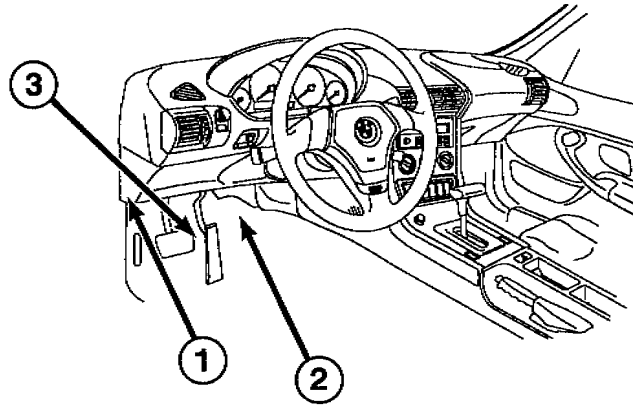
M23
PASSENGER'S
WINDOW MOTOR

X624
X744
X746
X18516

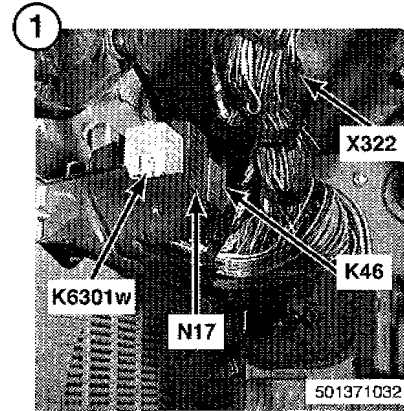


Z3

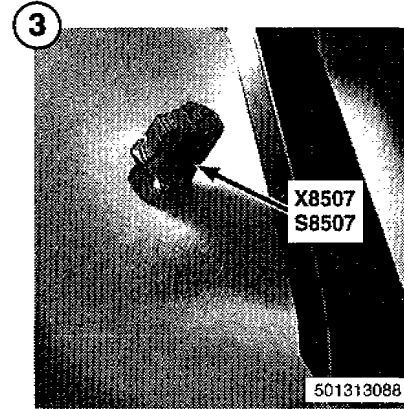
COMPONENT LOCATION VIEWS



X32
 X33
 X72
 X295

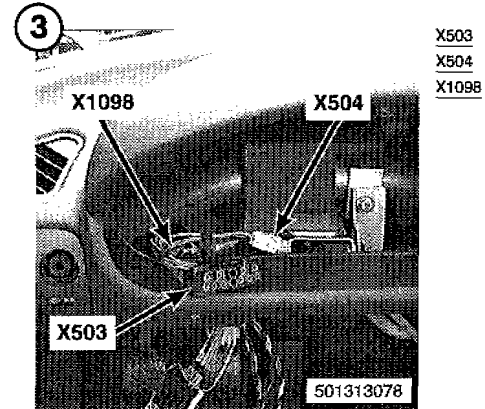
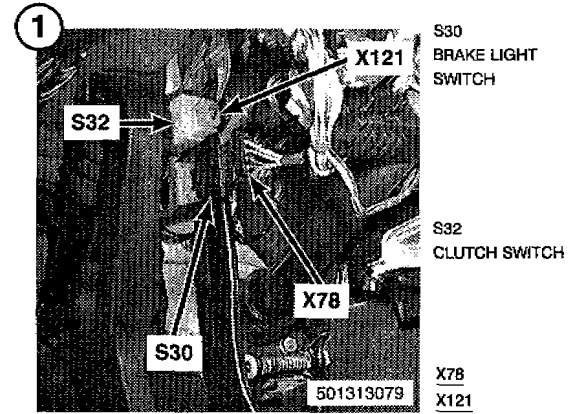
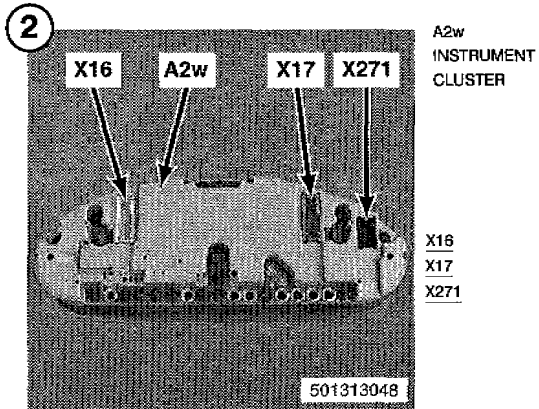
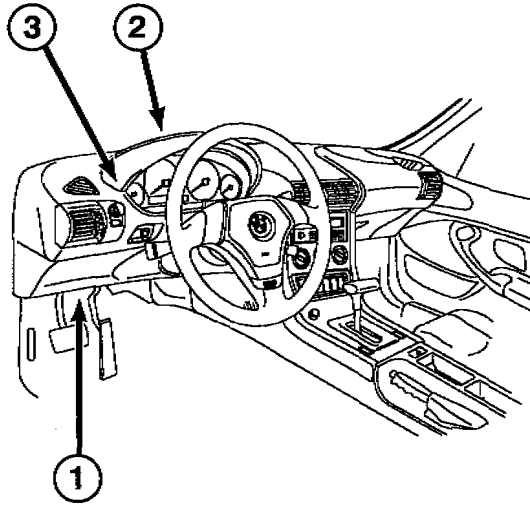


K46 HIGH BEAM LIGHT RELAY X322
 K6301w FUEL PUMP RELAY
 N17 CRASH CONTROL MODULE

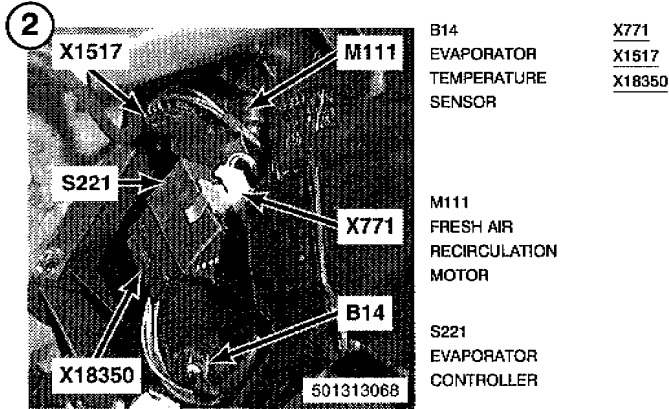
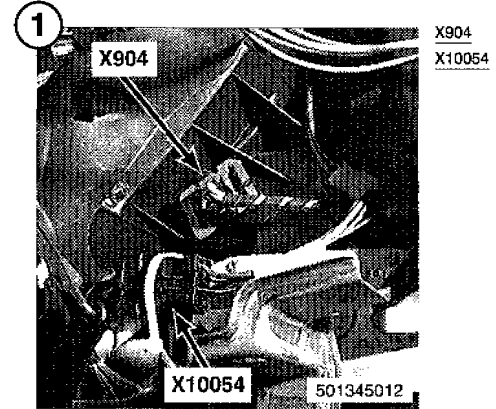
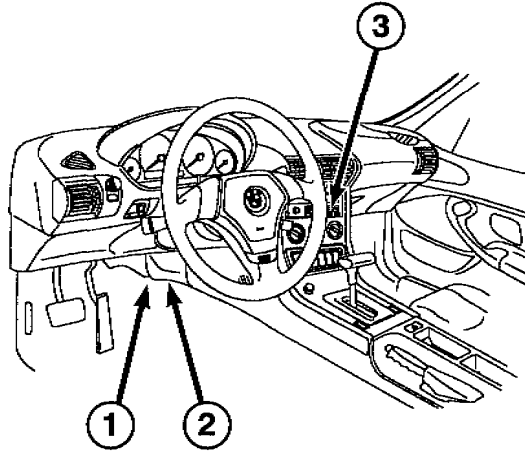


S8507 KICK-DOWN SWITCH
 X8507

COMPONENT LOCATION VIEWS



COMPONENT LOCATION VIEWS

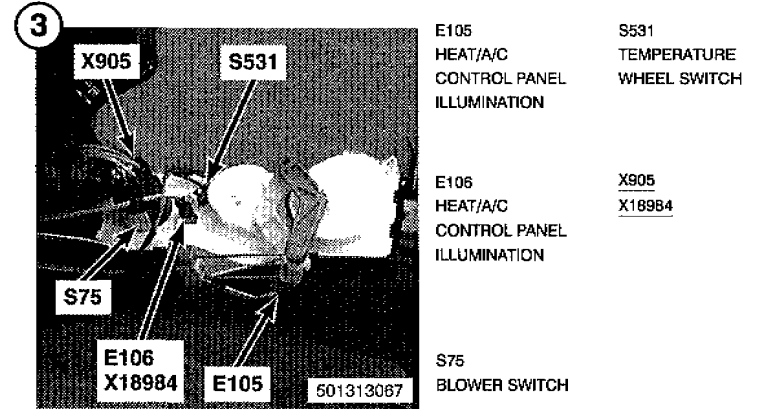


B14
EVAPORATOR
TEMPERATURE
SENSOR

X771
X1517
X18350

M111
FRESH AIR
RECIRCULATION
MOTOR

S221
EVAPORATOR
CONTROLLER



E105
HEAT/A/C
CONTROL PANEL
ILLUMINATION

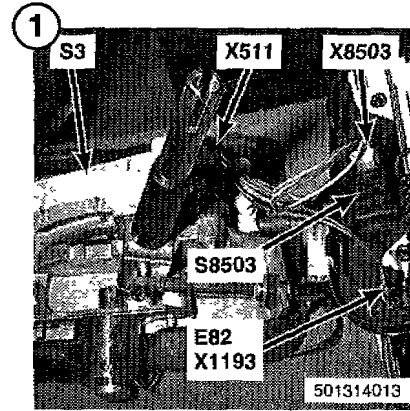
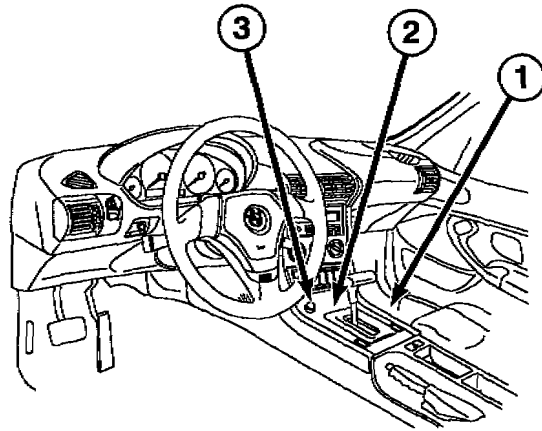
S531
TEMPERATURE
WHEEL SWITCH

E106
HEAT/A/C
CONTROL PANEL
ILLUMINATION

X905
X18984

S75
BLOWER SWITCH

COMPONENT LOCATION VIEWS

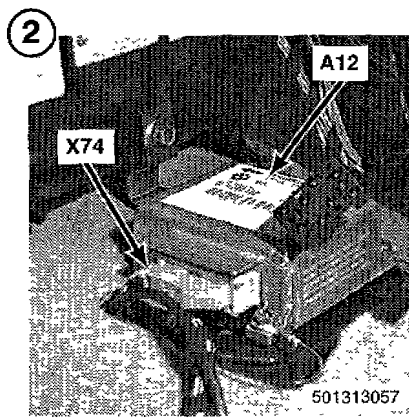


E82
TRANSMISSION
POSITION
INDICATOR LIGHT

X511
X1193
X8503

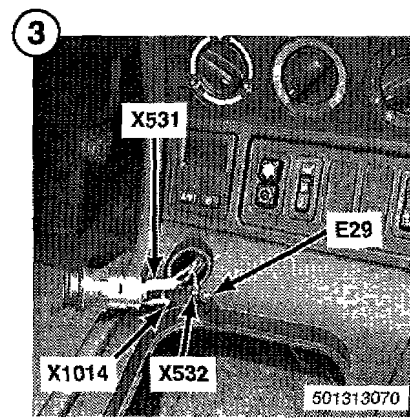
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

S8503
PROGRAM SWITCH



A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE

X74



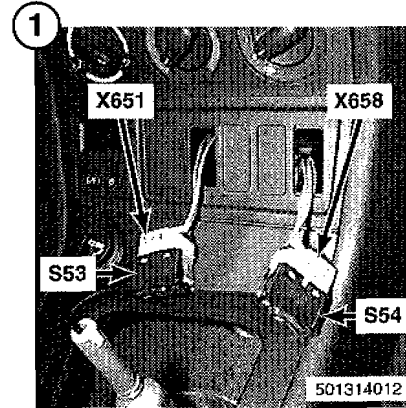
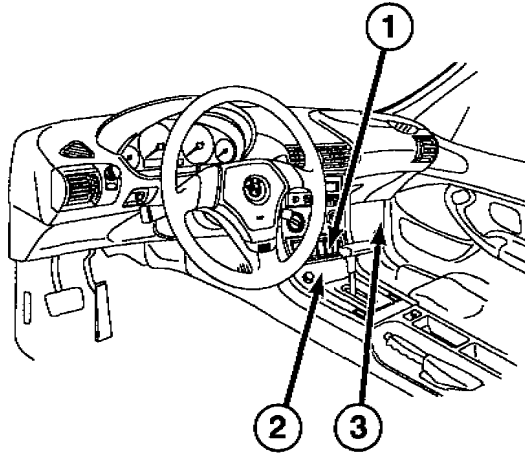
E29
FRONT CIGAR
LIGHTER LIGHT

X531
X532
X1014



Z3

COMPONENT LOCATION VIEWS

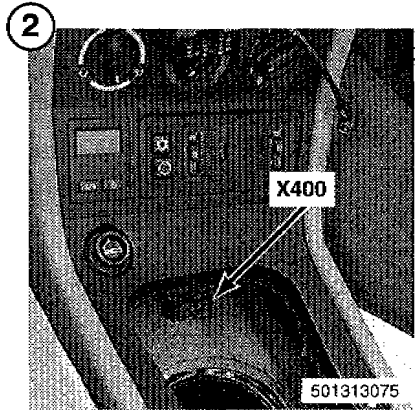


S53
DRIVER'S SEAT,
SEAT HEATER
SWITCH

S54
PASSENGER'S
SEAT, SEAT
HEATER SWITCH

X651
X658

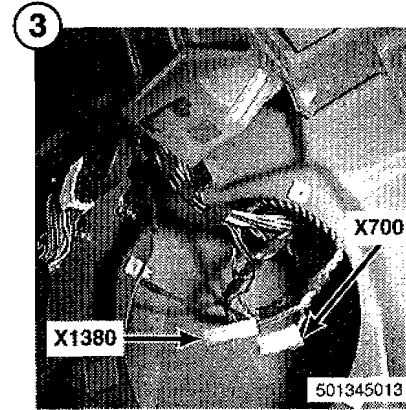
501314012



X400

X400

501313075



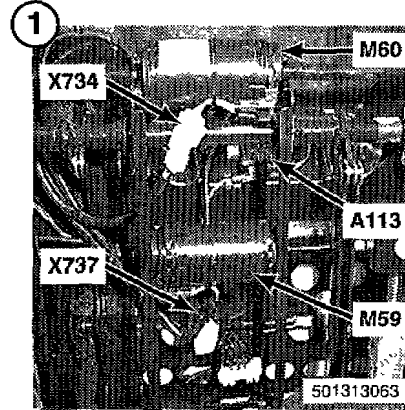
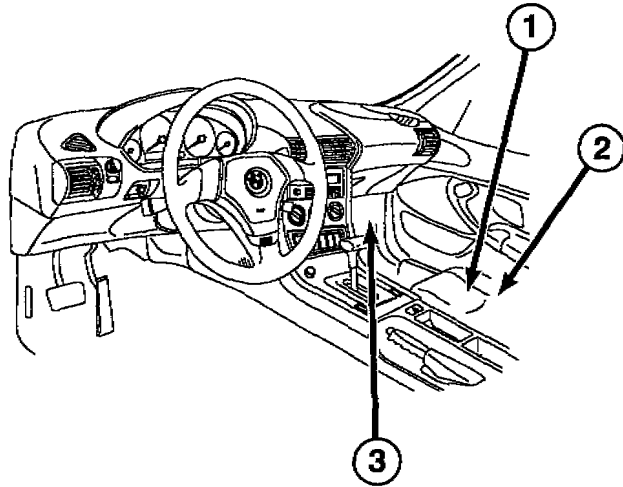
X700
X1380

X700

X1380

501345013

COMPONENT LOCATION VIEWS

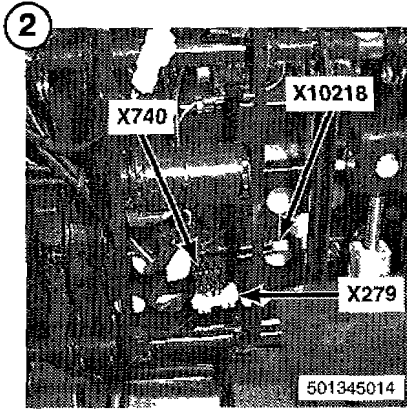


A113
SEAT OCCUPANCY
DETECTOR

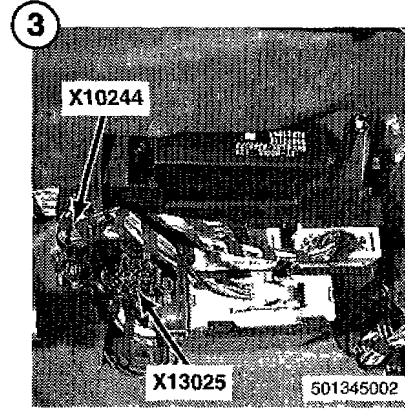
X734
X737

M59
PASSENGER S
SEAT HEIGHT
MOTOR

M60
PASSENGER S
SEAT MOVEMENT
MOTOR

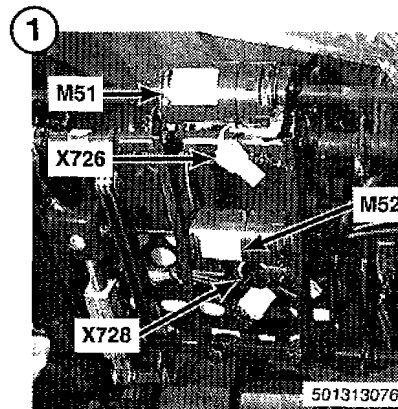
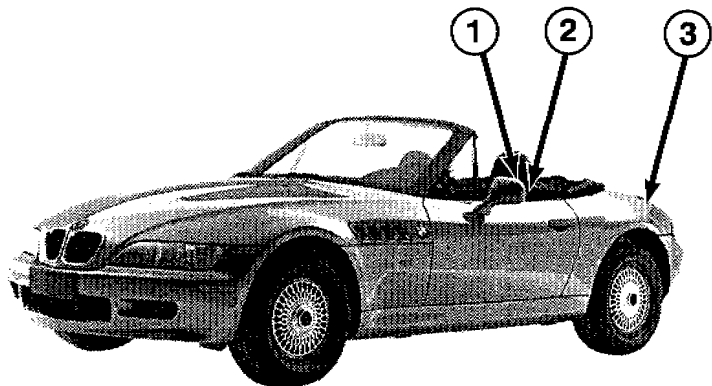


X279
X740
X10218



X10244
X13025

COMPONENT LOCATION VIEWS

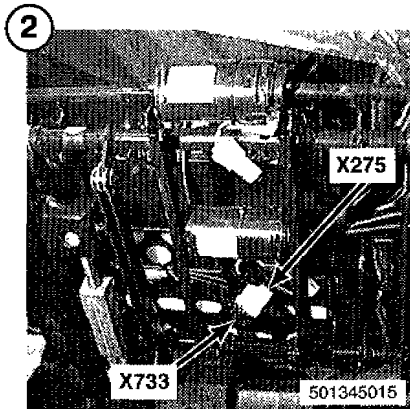


M51
DRIVER'S SEAT
MOVEMENT
MOTOR

M52
DRIVER'S SEAT
HEIGHT MOTOR

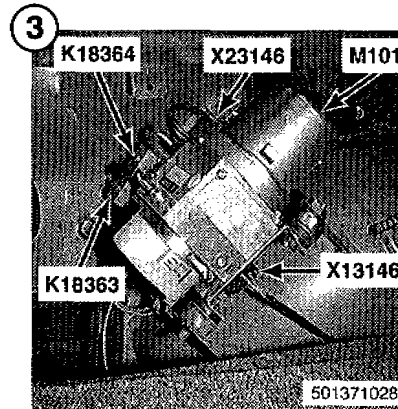
X726
X728

501313076



X275
X733

501345015



K18363
CONVERTIBLE TOP
RELAY I (CLOSE)

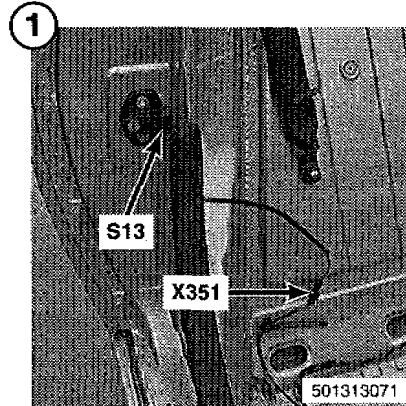
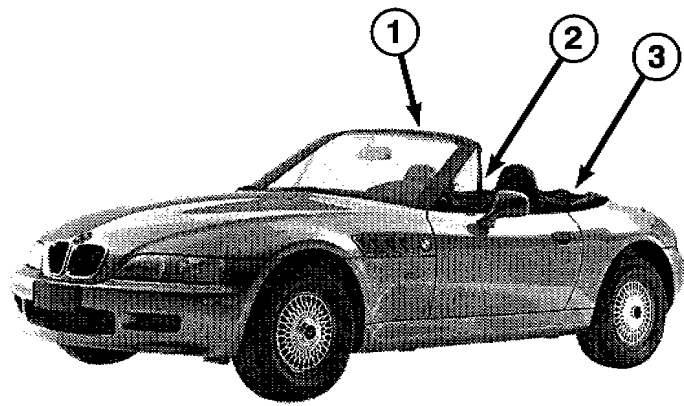
X13146
X23146

K18364
CONVERTIBLE TOP
RELAY II (OPEN)

M101
CONVERTIBLE TOP
MOTOR

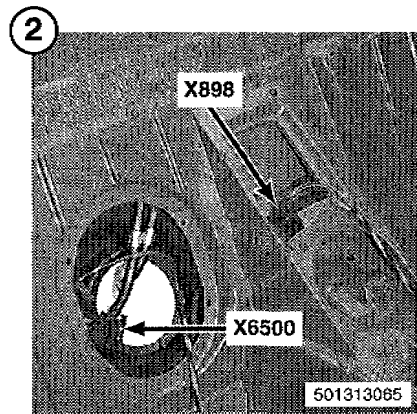
501371028

COMPONENT LOCATION VIEWS

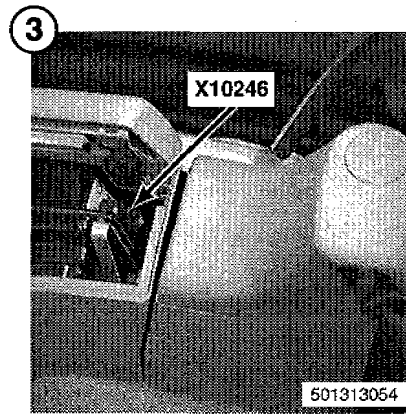


S13
PASSENGER'S
DOOR JAMB
SWITCH

X351

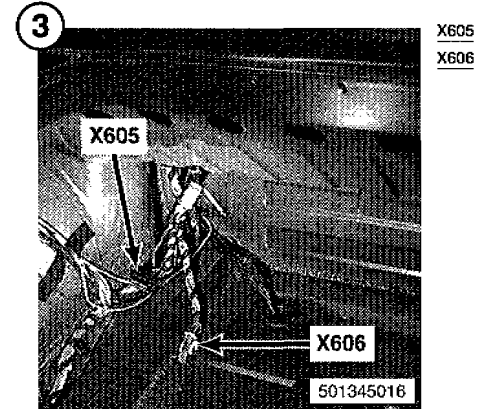
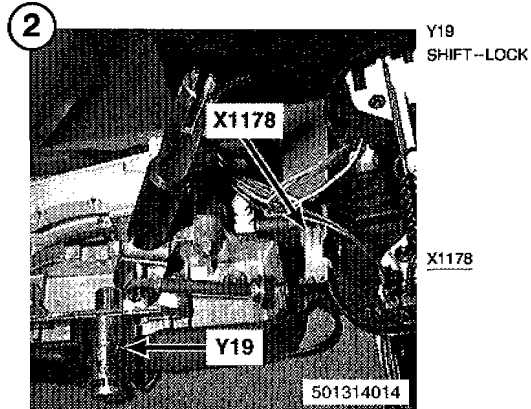
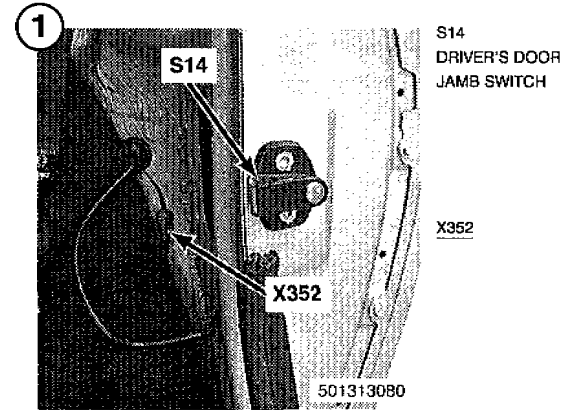
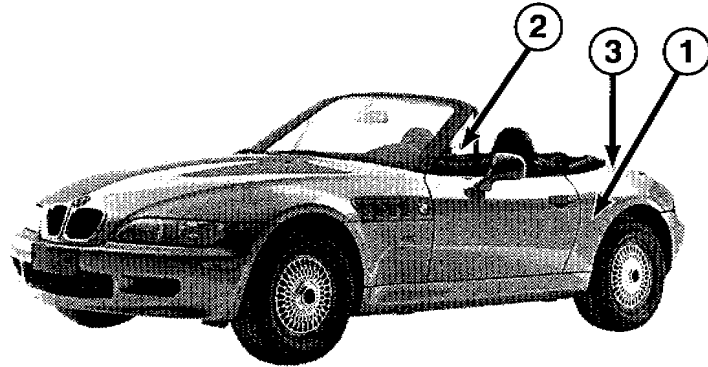


X898
X6500

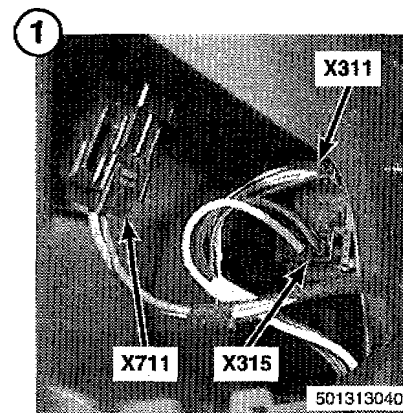
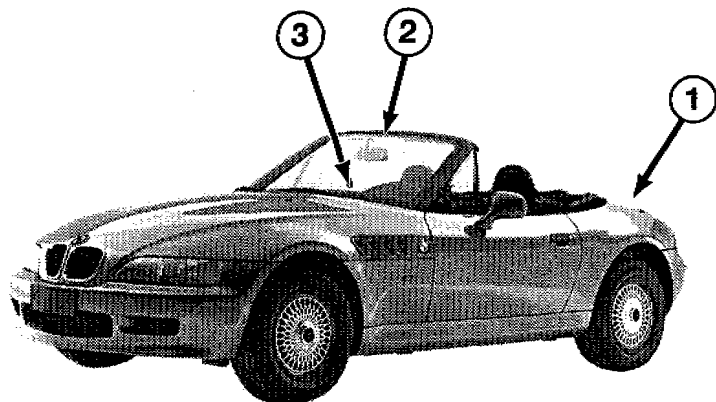


X10246

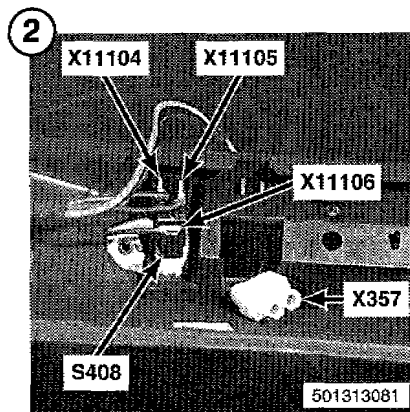
COMPONENT LOCATION VIEWS



COMPONENT LOCATION VIEWS

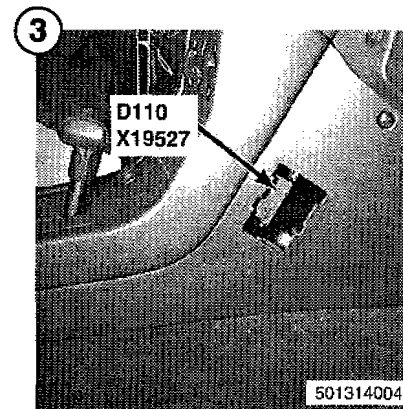


X311
X315
X711



S408
SIDE LIGHT
SWITCH

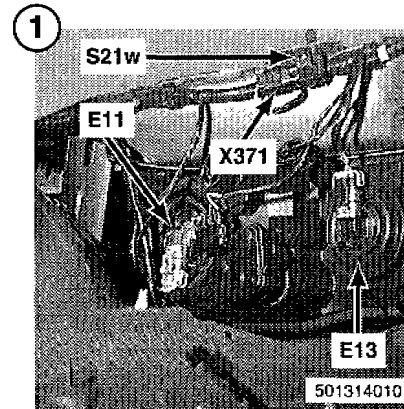
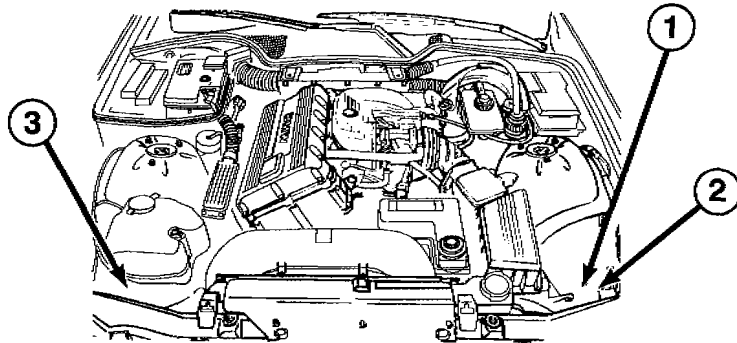
X357
X11104
X11105
X11106



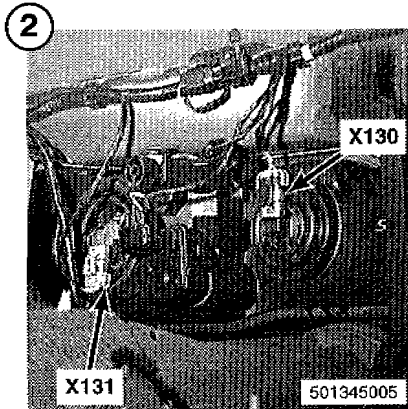
D110
OBD II
CONNECTOR

X19527

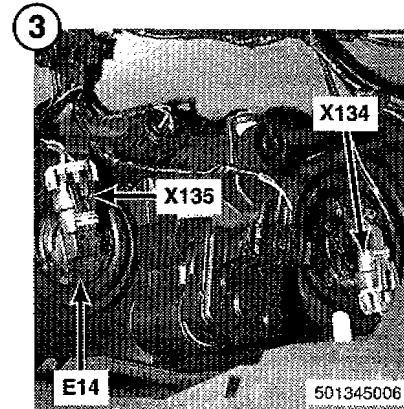
COMPONENT LOCATION VIEWS



E11 LEFT HIGH BEAM LIGHT
 X371
 E13 LEFT LOW BEAM LIGHT
 S21w ENGINE HOOD SWITCH
 E13
 501314010

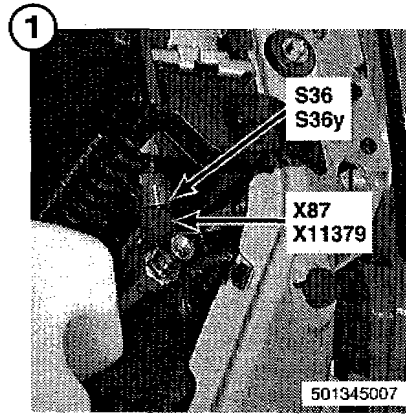
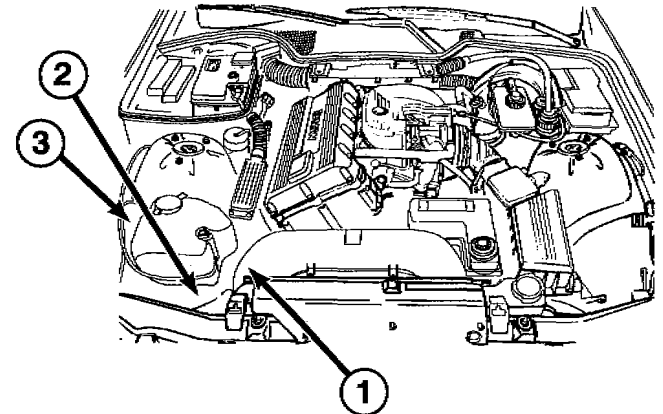


X130
 X131
 X130
 X131
 501345005



E14 RIGHT LOW BEAM LIGHT
 X134
 X135
 X134
 X135
 501345006

COMPONENT LOCATION VIEWS

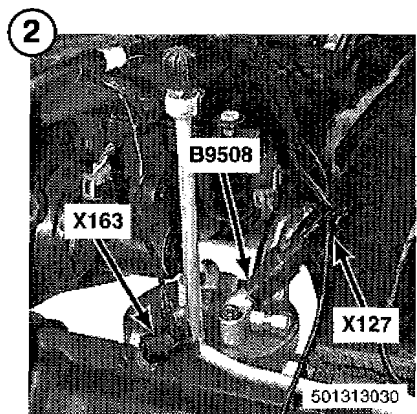


S36
TEMPERATURE
SWITCH

S36y
DOUBLE
TEMPERATURE
SWITCH

X87
X11379

501345007

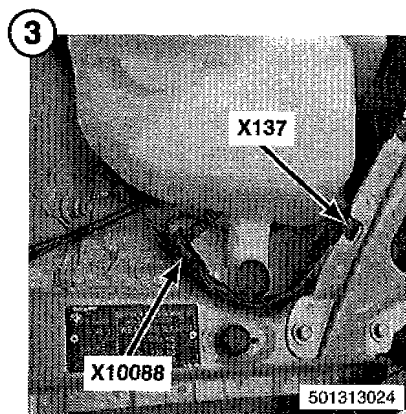


B9508
PRESSURE
SWITCH

X127
X163

X127

501313030



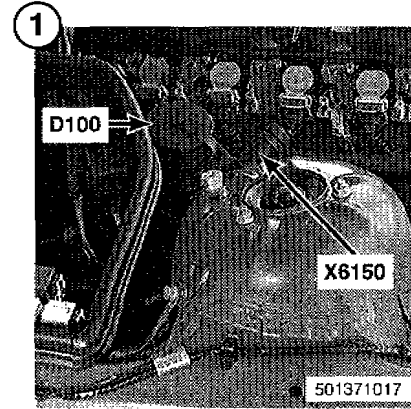
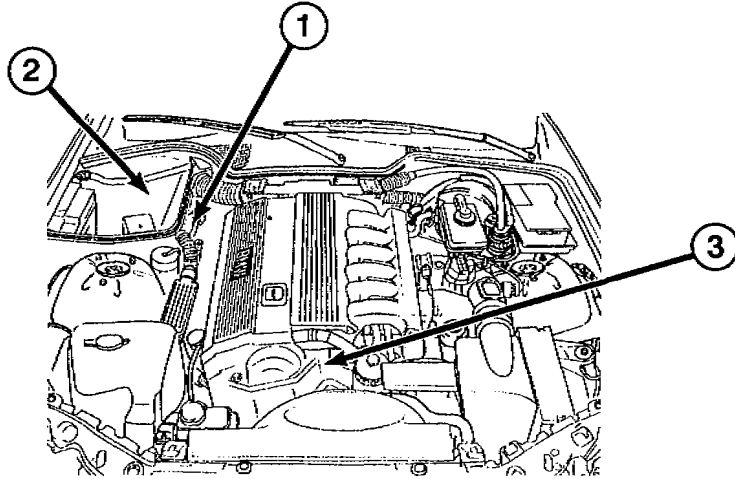
X137
X10088

X137

X10088

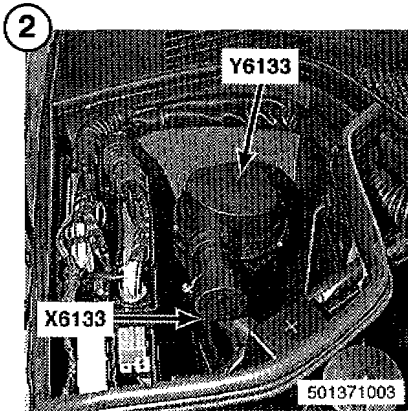
501313024

COMPONENT LOCATION VIEWS



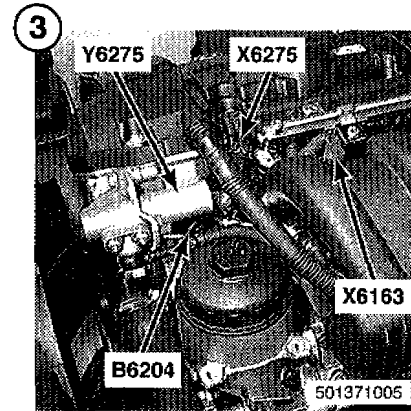
D100
DATA LINK
CONNECTOR

X6150



Y6133
AIR PUMP

X6133

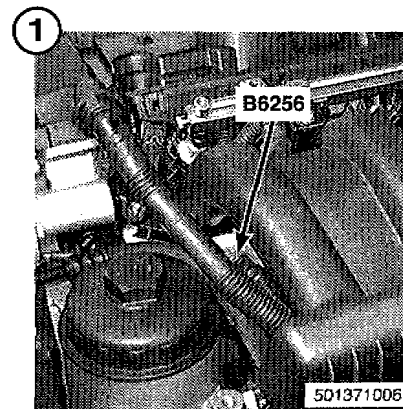
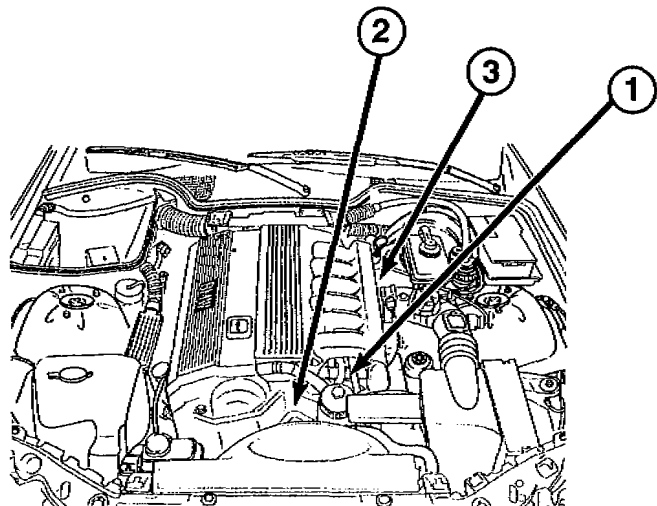


B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)

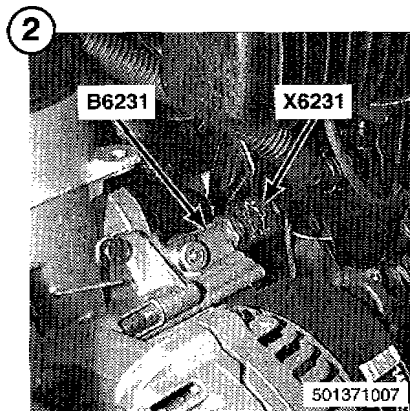
Y6275
VARIABLE CAM-
SHAFT CONTROL
VALVE 1

X6163
X6275

COMPONENT LOCATION VIEWS

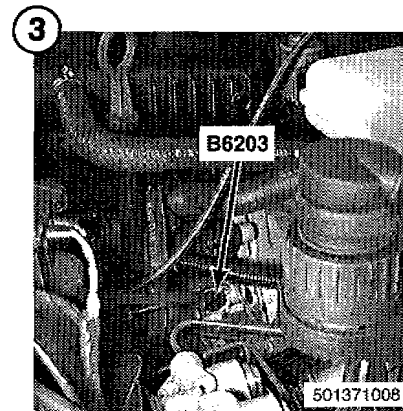


B6256
DUAL
TEMPERATURE
SENSOR
(COOLANT
TEMPERATURE)



B6231
OIL PRESSURE
SWITCH

X6231

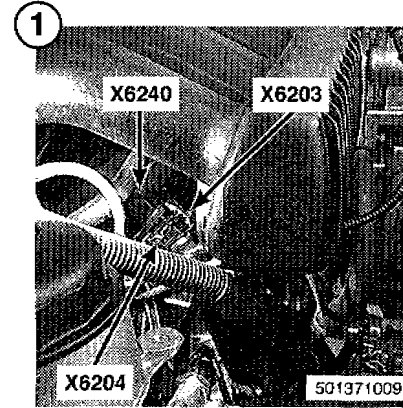
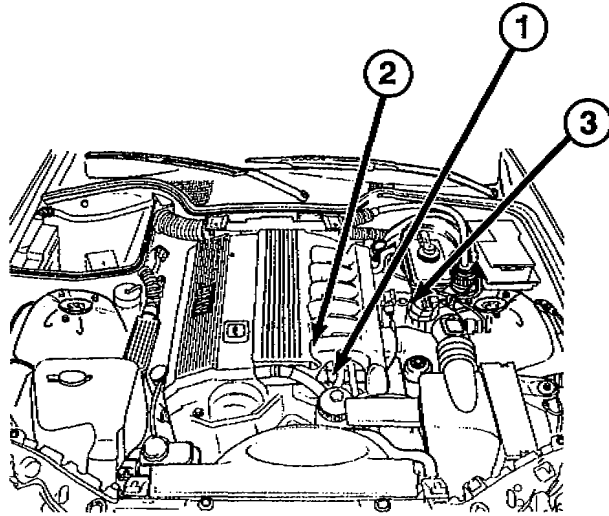


B6203
CRANKSHAFT
POSITION/RPM
SENSOR



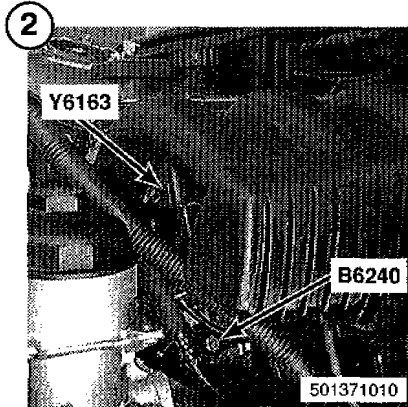
Z3

COMPONENT LOCATION VIEWS



X6203
X6204
X6240

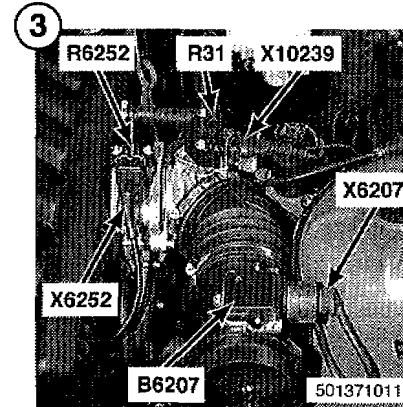
X6204 501371009



B6240
KNOCK SENSOR

Y6163
SECONDARY AIR
PUMP VALVE

501371010



B6207
HOT FILM AIR
MASS METER

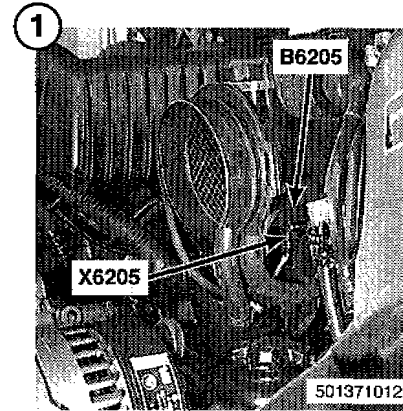
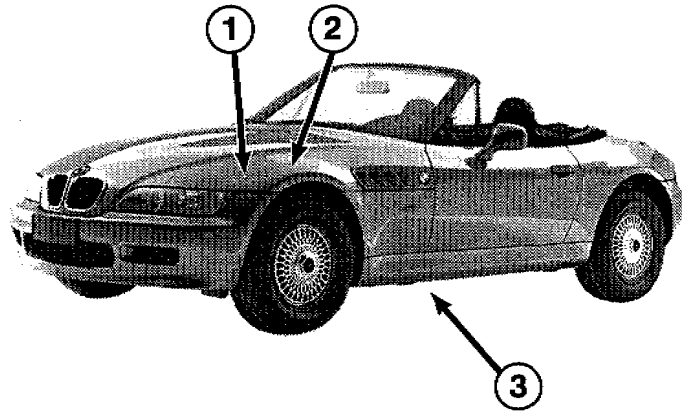
X6207
X6252
X10239

R31
AUXILIARY
THROTTLE
POSITION SENSOR

R6252
THROTTLE
POSITION SENSOR

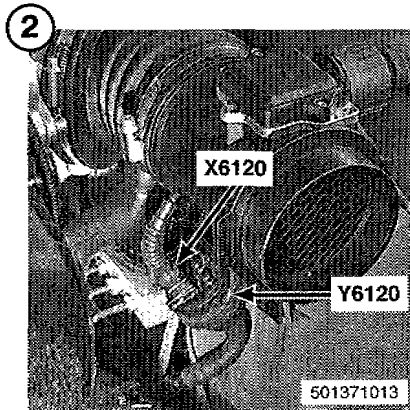
B6207 501371011

COMPONENT LOCATION VIEWS



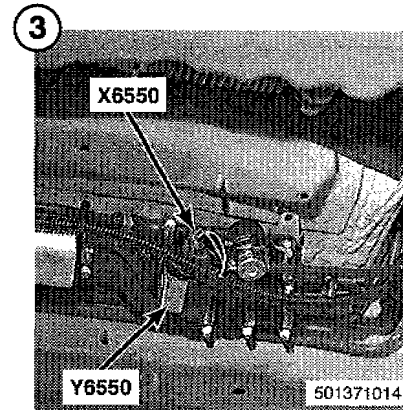
B6205
INTAKE AIR
TEMPERATURE
SENSOR

X6205



Y6120
EVAPORATIVE
EMISSION VALVE

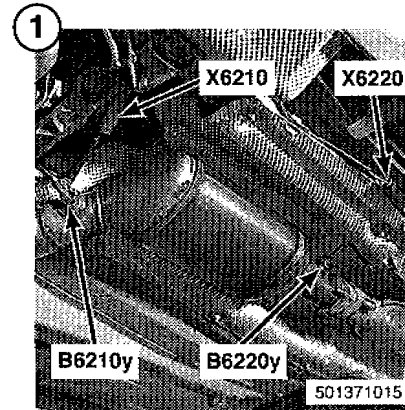
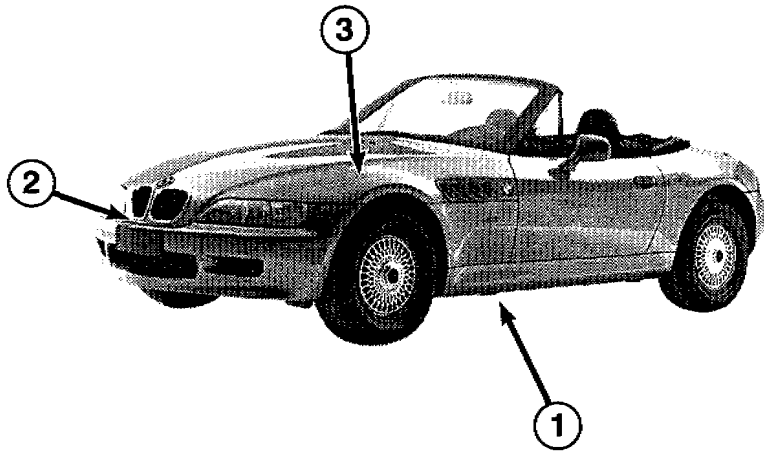
X6120



Y6550
SOLENOID VALVE
("RUNNING
LOSSES")

X6550

COMPONENT LOCATION VIEWS

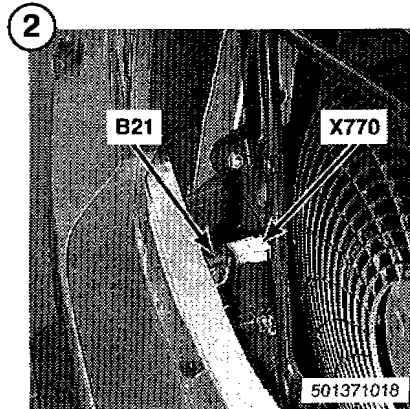


B6210y
OXYGEN SENSOR
(IN FRONT OF
CATALYTIC
CONVERTER)

B6220y
OXYGEN SENSOR
(BEHIND
CATALYTIC
CONVERTER)

X6210
X6220

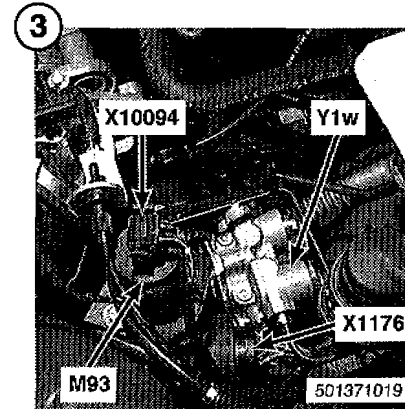
501371015



B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770

501371018



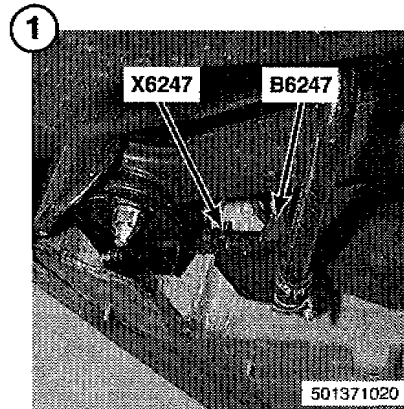
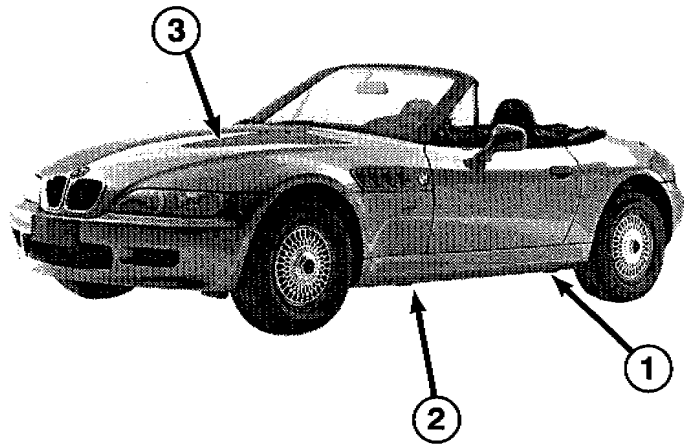
M93
AUXILIARY
THROTTLE
POSITION MOTOR
(ADS)

Y1w
ABS HYDRAULIC
UNIT

X1176
X10084

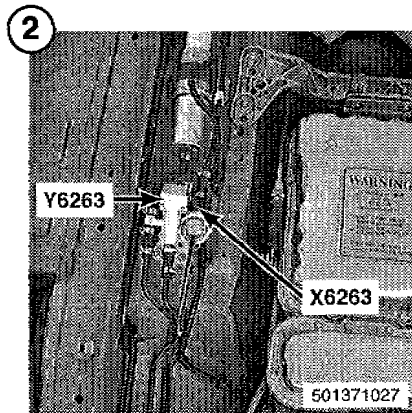
501371019

COMPONENT LOCATION VIEWS



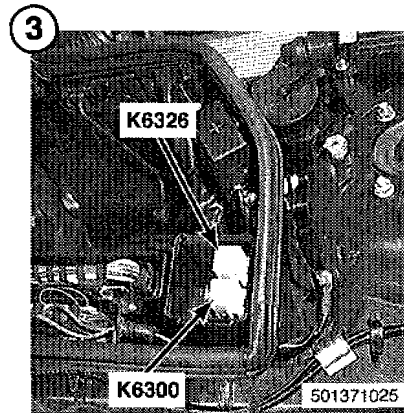
B6247
CHARCOAL FILTER
SHUT-OFF VALVE

X6247



Y6263
FUEL CHANGE-
OVER VALVE

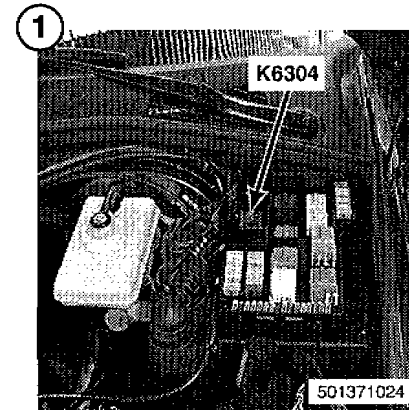
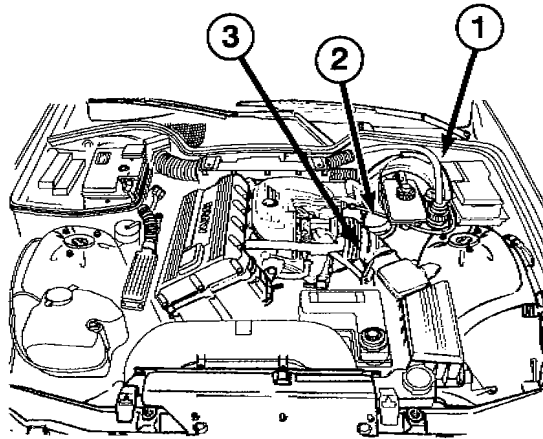
X6263



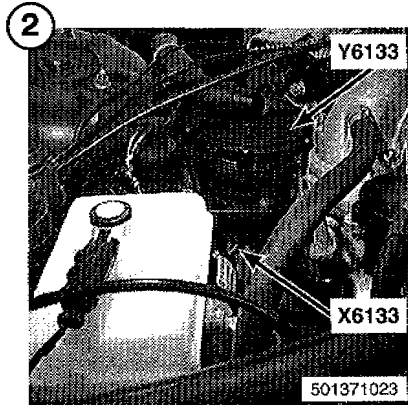
K6300
ENGINE CONTROL
MODULE RELAY

K6326
UNLOADER RELAY,
TERMINAL 15

COMPONENT LOCATION VIEWS



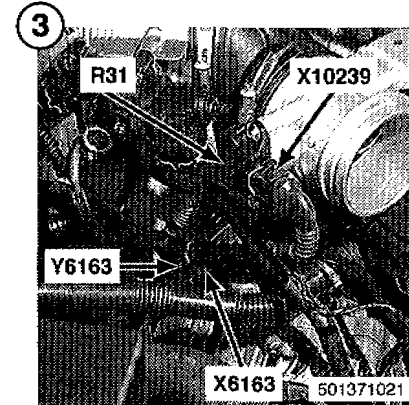
K6304
SECONDARY AIR
PUMP RELAY



Y6133
AIR PUMP

X6133

501371023



R31
AUXILIARY
THROTTLE
POSITION SENSOR

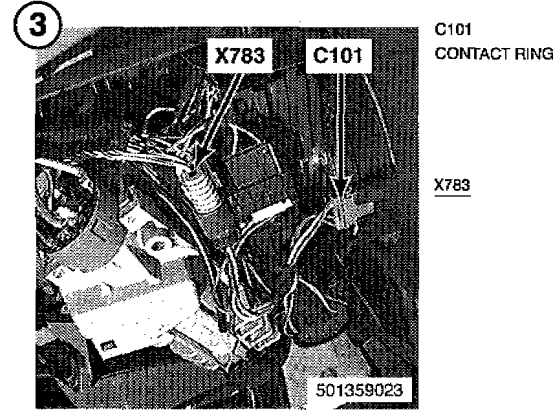
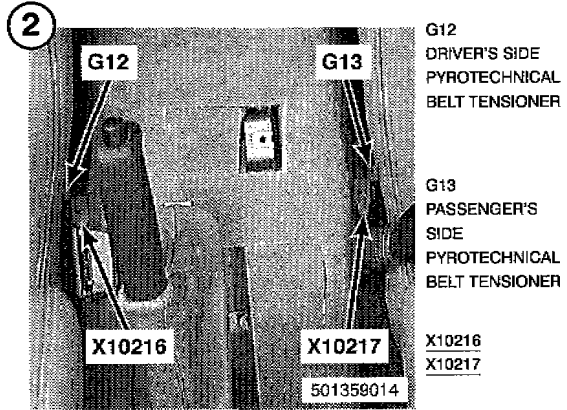
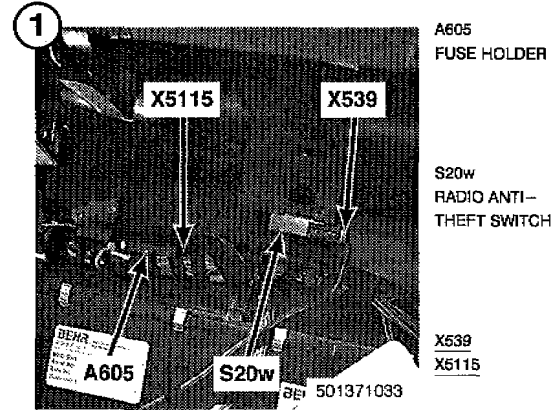
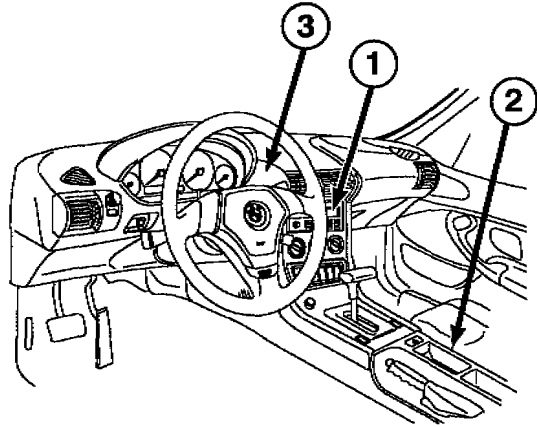
Y6163
SECONDARY AIR
PUMP VALVE

X6163
X10239

X6163

501371021

COMPONENT LOCATION VIEWS





SPLICE LOCATION VIEWS

Z3

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X181-X188	BODY	8000.0-03	X849-X851	DRIVER'S DOOR	8000.0-04
X189	IHKS	8000.0-03	X876-X877	RADIO/HIFI/CD	8000.0-04
X191-X196	BODY	8000.0-03	X878-X888	BODY	8000.0-03
X197	BODY	8000.0-04	X942	PASSENGER'S DOOR	8000.0-04
X203-X223	BODY	8000.0-03	X985	IHKS	8000.0-03
X228	BODY	8000.0-04	X1015-X1019	BODY	8000.0-03
X245-X246	BODY	8000.0-03	X1022-X1047	BODY	8000.0-03
X443	BODY	8000.0-03	X1055	BODY	8000.0-04
X444	BODY	8000.0-04	X1066-X1079	BODY	8000.0-03
X445	BODY	8000.0-03	X1091	BODY	8000.0-04
X449	BODY	8000.0-04	X1100-X1115	BODY	8000.0-03
X450	BODY	8000.0-03	X1149	BODY	8000.0-04
X453-X460	BODY	8000.0-04	X1152-X1164	BODY	8000.0-03
X461	BODY	8000.0-03	X1167	BODY	8000.0-04
X462-X465	BODY	8000.0-04	X1168-X1186	BODY	8000.0-03
X470	BODY	8000.0-03	X1214	BODY	8000.0-03
X530	BODY	8000.0-03	X1225-X1226	BODY	8000.0-04
X576-X595	BODY	8000.0-03	X1234-X1238	BODY	8000.0-04
X697-X699	BODY	8000.0-03	X1258	BODY	8000.0-03
X805	BODY	8000.0-04	X1263	BODY	8000.0-04
X806	BODY	8000.0-03	X1264	BODY	8000.0-03
X814-X818	IHKS	8000.0-03	X1280	BODY	8000.0-03
X824-X830	RADIO/HIFI/CD	8000.0-04	X1357	BODY	8000.0-03



SPLICE LOCATION VIEWS

Z3

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X1403	BODY	8000.0-03	X7845-X7846	M44 ENGINE	8000.0-05
X1429-X1435	IHKS	8000.0-03	X8000-X8015	M52 ENGINE	8000.0-06
X1541-X1542	BODY	8000.0-03	X8004-X8005	M44 ENGINE	8000.0-05
X1608	BODY	8000.0-04	X8008	M44 ENGINE	8000.0-05
X1610-X1616	BODY	8000.0-03	X8015	M44 ENGINE	8000.0-05
X1617-X1618	BODY	8000.0-04	X8038	M52 ENGINE	8000.0-06
X1620-X1625	BODY	8000.0-03	X8051	M52 ENGINE	8000.0-06
X2233	BODY	8000.0-03	X8056	M44 ENGINE	8000.0-05
X6410	M44 ENGINE	8000.0-05	X8071-X8074	M52 ENGINE	8000.0-06
X6411-X6415	M52 ENGINE	8000.0-06	X8073	M44 ENGINE	8000.0-05
X6420	M52 ENGINE	8000.0-06	X8090-X8091	M52 ENGINE	8000.0-06
X6458-X6460	M52 ENGINE	8000.0-06	X8103	M52 ENGINE	8000.0-06
X6460-X6492	M44 ENGINE	8000.0-05	X8564-X8565	M52 ENGINE	8000.0-06
X6475	M52 ENGINE	8000.0-06	X8564-X8576	M44 ENGINE	8000.0-05
X6492	M52 ENGINE	8000.0-06	X9430	BODY	8000.0-03
X6810	M52 ENGINE	8000.0-06	X9992-X9993	DRIVER'S SEAT	NOT SHOWN
X6820-X6822	M52 ENGINE	8000.0-06	X9996-X9997	PASSENGER'S SEAT	NOT SHOWN
X6820-X6823	M44 ENGINE	8000.0-05	X10008	BODY	8000.0-03
X6830-X6835	M52 ENGINE	8000.0-06	X10009	BODY	8000.0-04
X6832-X6891	M44 ENGINE	8000.0-05	X10014-X10055	BODY	8000.0-03
X6860-X6869	M52 ENGINE	8000.0-06	X10064	BODY	8000.0-04
X6900	M44 ENGINE	8000.0-05	X10100-X10126	BODY	8000.0-03
X6949	BODY	8000.0-03	X10169	M44 ENGINE	8000.0-05

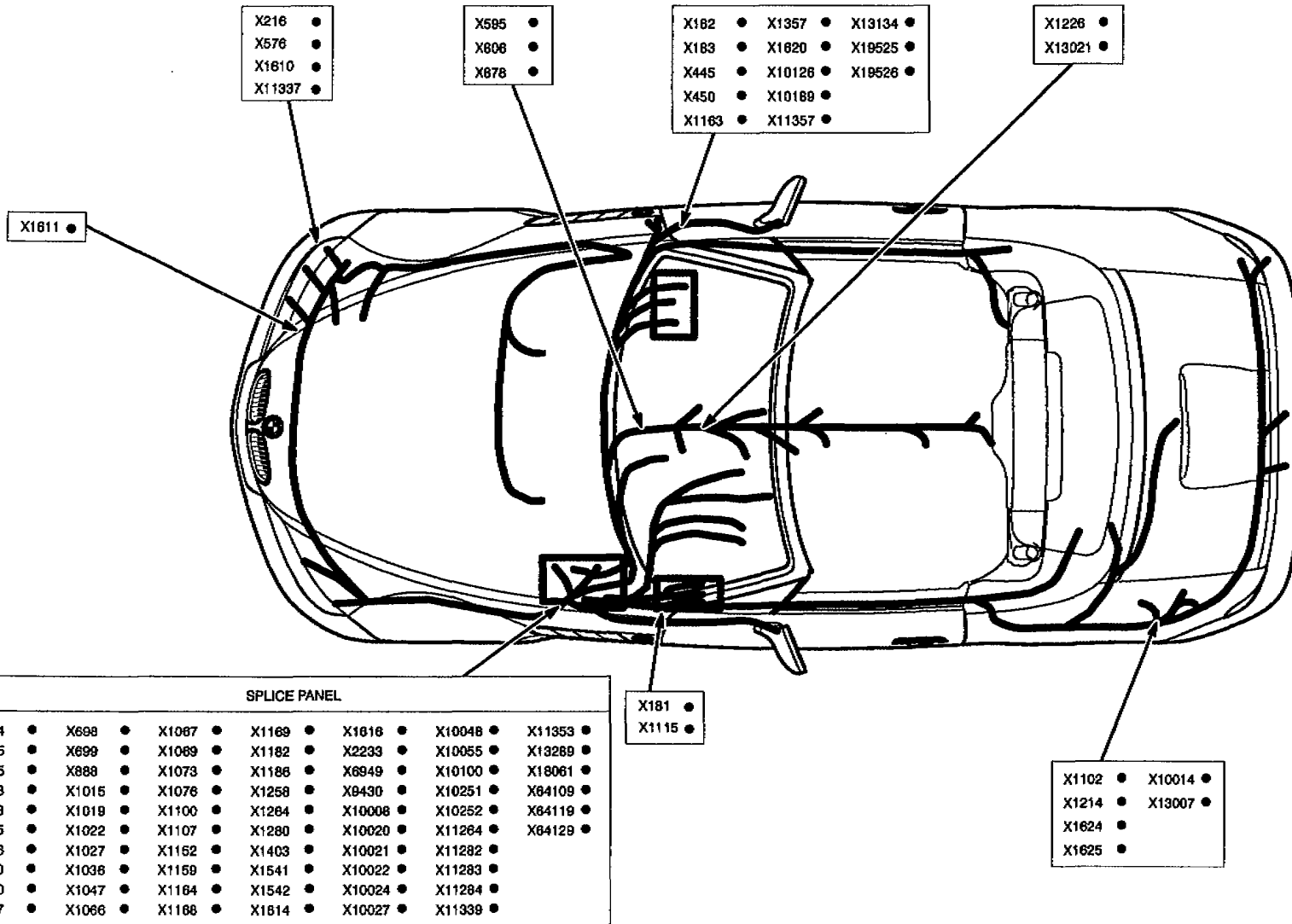


SPLICE LOCATION VIEWS

Z3

SPLICE	HARNESS	PAGE NUMBER
X10189	BODY	8000.0-03
X10251-X10252 ...	BODY	8000.0-03
X11264-X11284 ...	BODY	8000.0-03
X11291	BODY	8000.0-04
X11337-X11353 ...	BODY	8000.0-03
X11355	BODY	8000.0-04
X11357	BODY	8000.0-03
X13007	BODY	8000.0-03
X13011-X13047 ...	BODY	8000.0-04
X13134	BODY	8000.0-03
X13289	BODY	8000.0-03
X18061	BODY	8000.0-03
X19513	RADIO/HIFI/CD	8000.0-04
X19002-X19004 ...	BODY	8000.0-04
X19525-X19526 ...	BODY	8000.0-03
X64109	BODY	8000.0-03
X64119	BODY	8000.0-03
X64129	BODY	8000.0-03
X64591	BODY	8000.0-04
X68309	IHKS	8000.0-03
X80253	M52 ENGINE	8000.0-06

SPLICE LOCATION VIEWS
BODY HARNESS

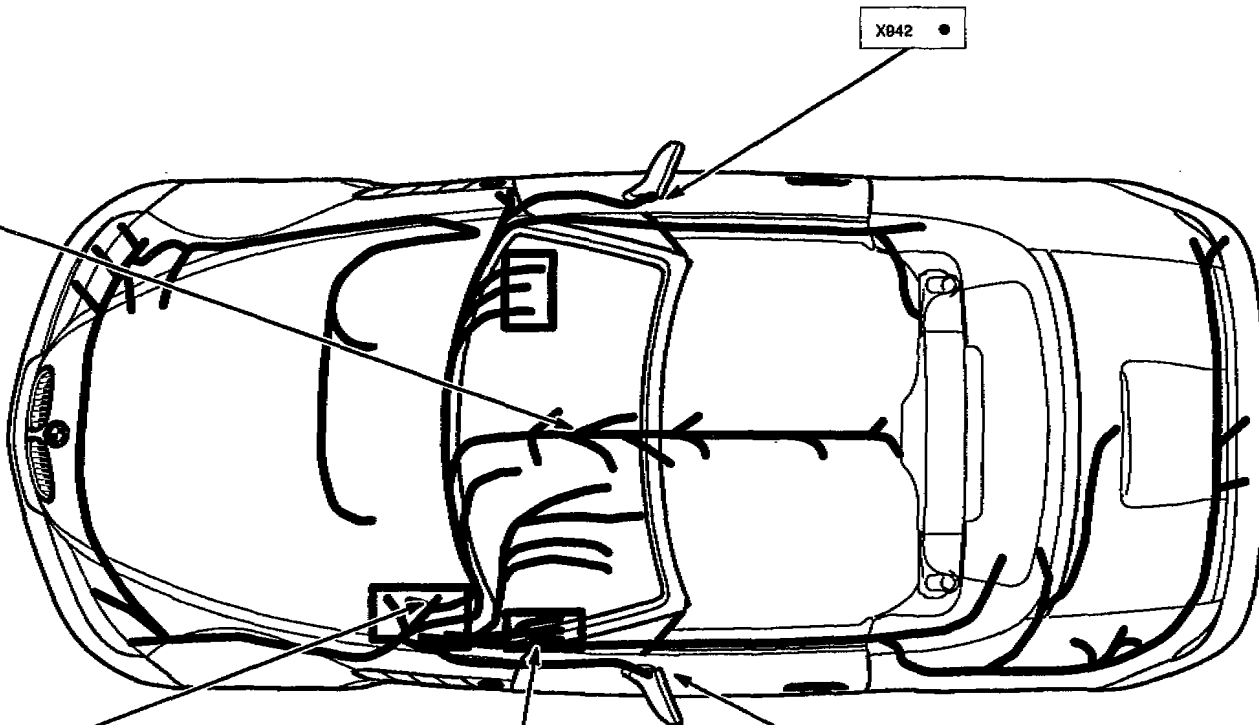


SPLICE PANEL						
X184	X698	X1087	X1169	X1818	X10048	X11353
X185	X699	X1089	X1182	X2233	X10055	X13289
X195	X888	X1073	X1188	X6949	X10100	X18061
X203	X1015	X1076	X1258	X8430	X10251	X64109
X223	X1019	X1100	X1284	X10008	X10252	X64119
X245	X1022	X1107	X1280	X10020	X11264	X64129
X246	X1027	X1162	X1403	X10021	X11282	
X470	X1038	X1159	X1541	X10022	X11283	
X530	X1047	X1164	X1542	X10024	X11284	
X697	X1066	X1188	X1814	X10027	X11339	

SPLICE LOCATION VIEWS
BODY HARNESS

- X1226 ● X10084 ●
- X1808 ● X11355 ●
- X1817 ● X13021 ●
- X1818 ● X13047 ●

- X842 ●



- X19002 ●
- X19003 ●

SPLICE PANEL			
X188 ●	X449 ●	X1028 ●	X1283 ●
X181 ●	X453 ●	X1029 ●	X10009 ●
X196 ●	X455 ●	X1055 ●	X11291 ●
X197 ●	X461 ●	X1079 ●	X13011 ●
X213 ●	X462 ●	X1225 ●	X84581 ●
X443 ●	X465 ●	X1234 ●	
X444 ●	X805 ●	X1235 ●	

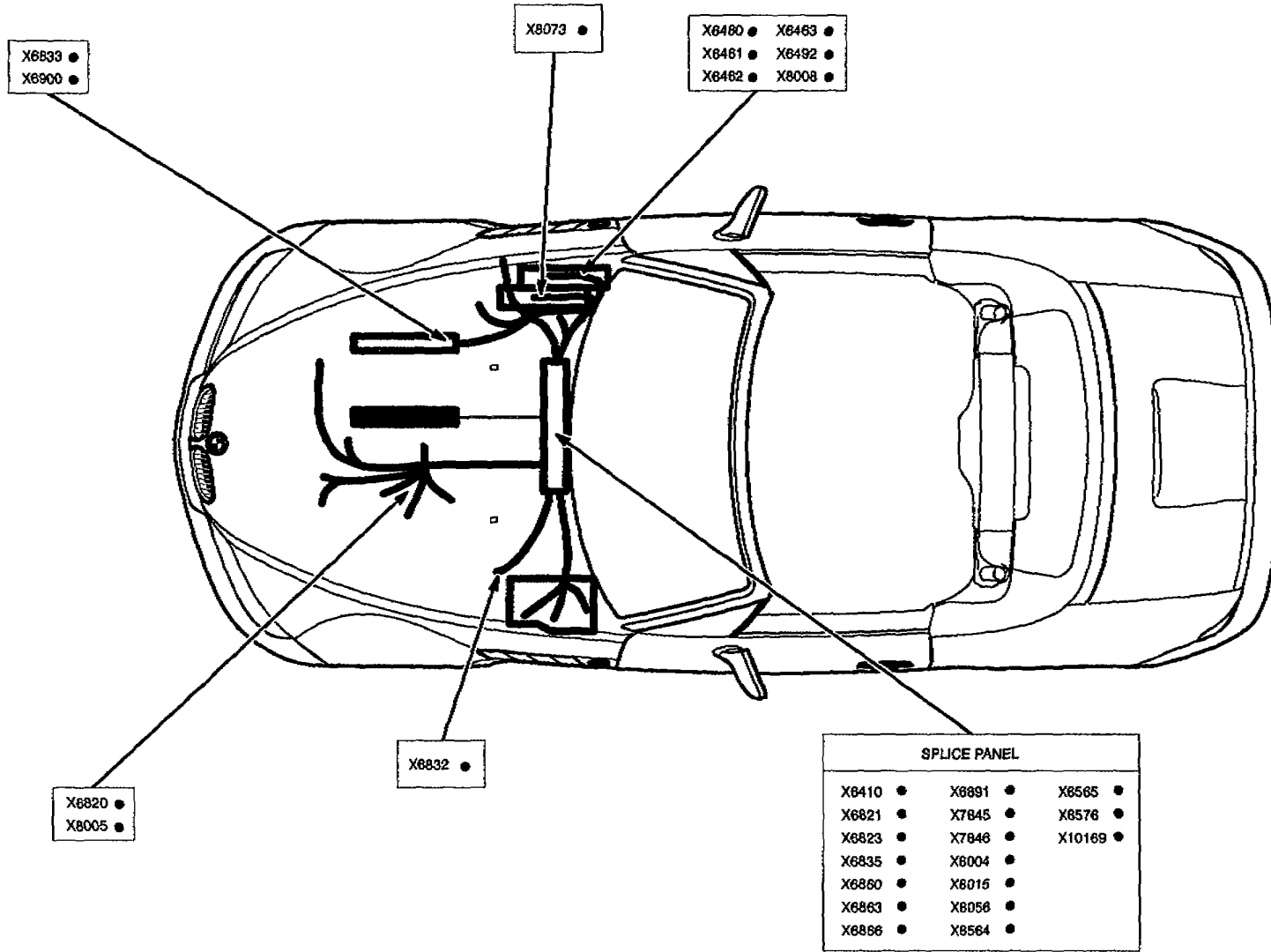
- X849 ●
- X850 ●
- X851 ●



SPLICE LOCATION VIEWS

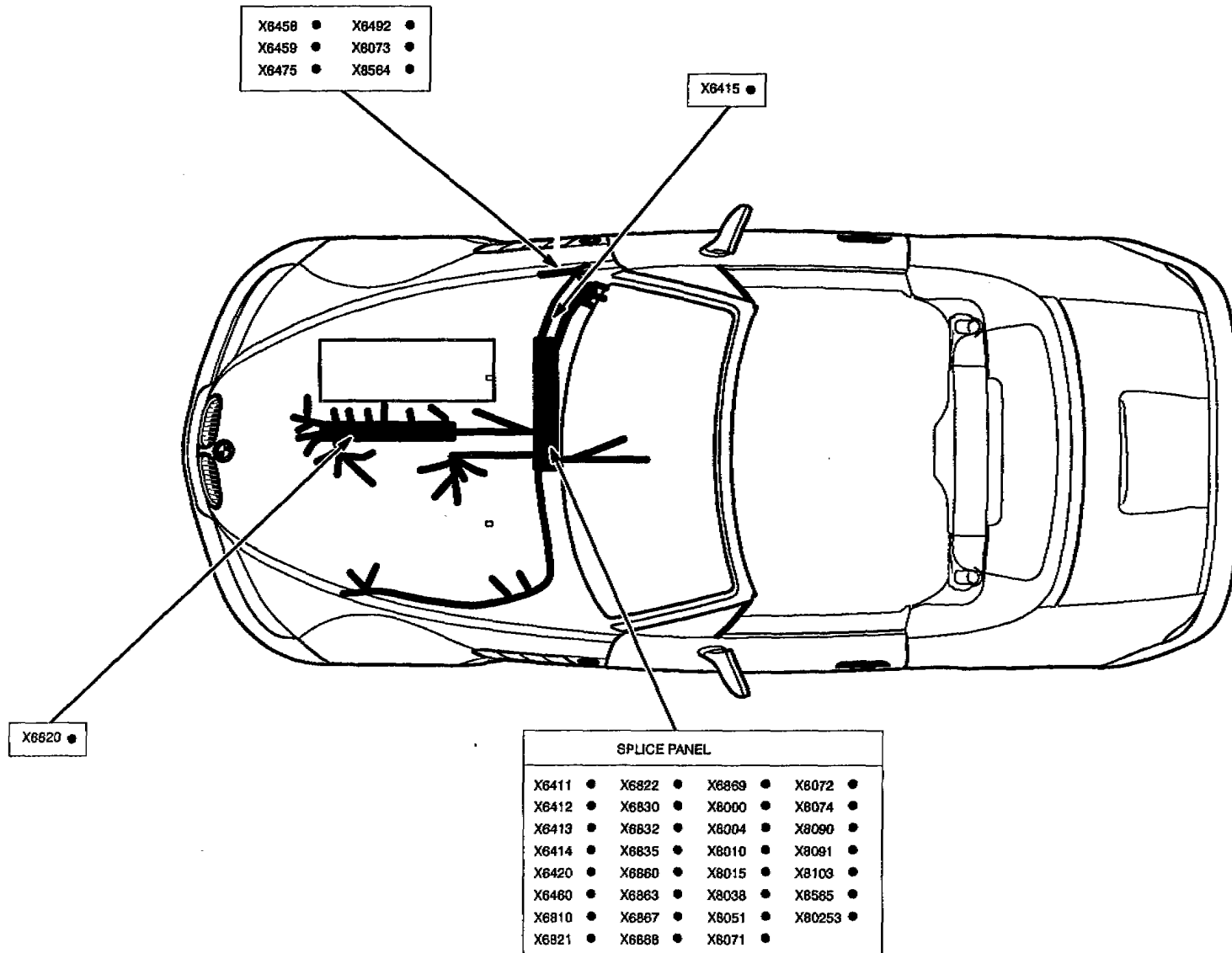
ENGINE HARNESS M44

Z3



SPLICE LOCATION VIEWS

ENGINE HARNESS M52



- | | |
|---------|---------|
| X6458 ● | X6492 ● |
| X6459 ● | X6073 ● |
| X6475 ● | X6564 ● |

X6415 ●

X6620 ●

SPLICE PANEL			
X6411 ●	X6822 ●	X6869 ●	X8072 ●
X6412 ●	X6830 ●	X8000 ●	X8074 ●
X6413 ●	X6832 ●	X8004 ●	X8090 ●
X6414 ●	X6835 ●	X8010 ●	X8091 ●
X6420 ●	X6860 ●	X8015 ●	X8103 ●
X6460 ●	X6863 ●	X8038 ●	X8585 ●
X6810 ●	X6867 ●	X8051 ●	X80253 ●
X6821 ●	X6888 ●	X8071 ●	

FIG. 1

B880001.00

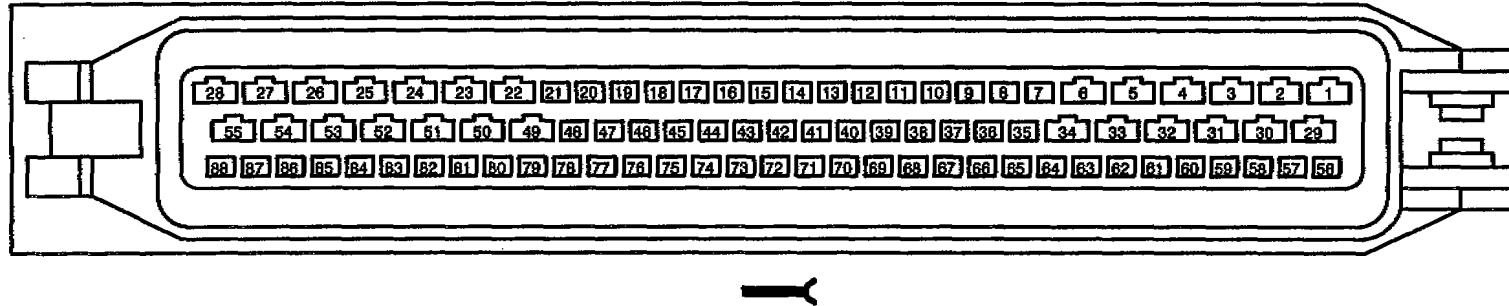


FIG. 2

B070013.00

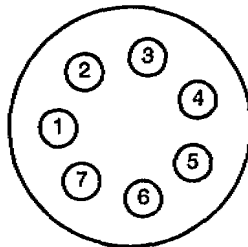
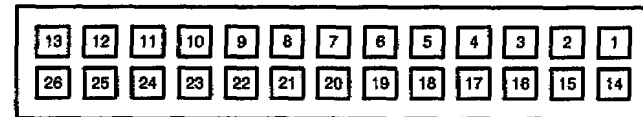


FIG. 3

B260005.00



CONNECTOR VIEWS

FIG. 1

B030024

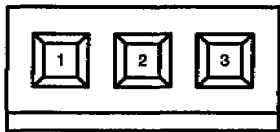


FIG. 2

B300005.00

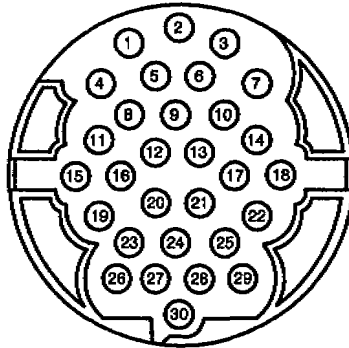


FIG. 3

B120001.01

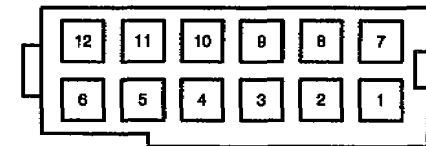


FIG. 4

B060044.00

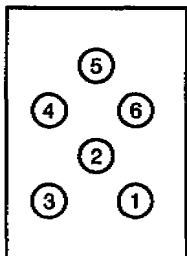


FIG. 5

B120002.02

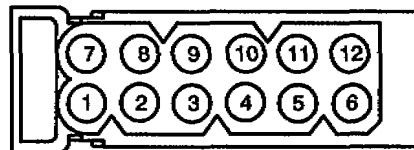


FIG. 6

B120015

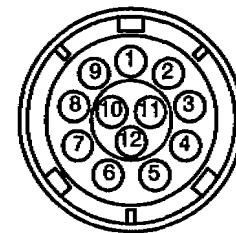


FIG. 1

B080002.00

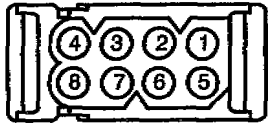


FIG. 2

B170001.00

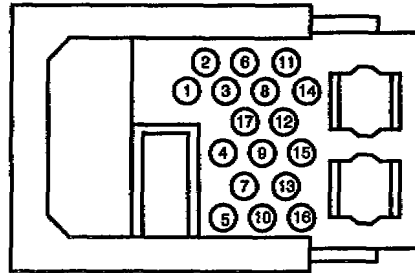


FIG. 3

B100008.00

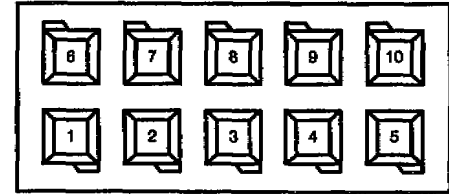


FIG. 4

B120004.01

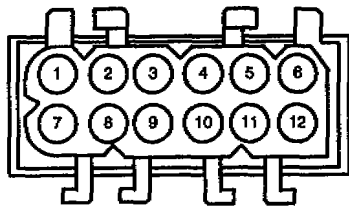


FIG. 5

B030004.01

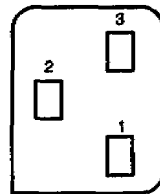


FIG. 6

B050003.00



CONNECTOR VIEWS

FIG. 1

B040004.00



FIG. 2

B040018.05

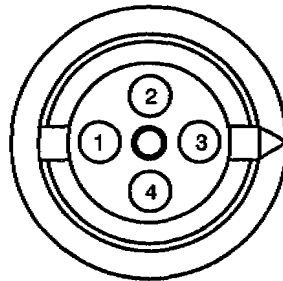


FIG. 3

B080001.00

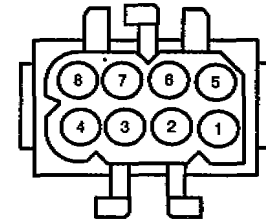


FIG. 4

B090002.00

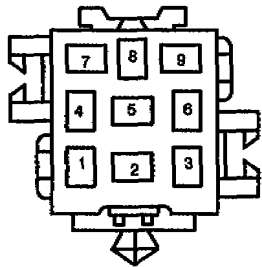


FIG. 5

B260002.01

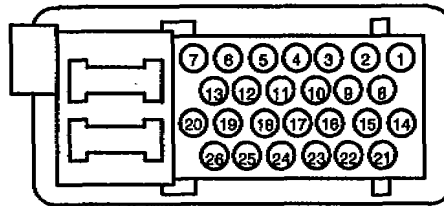


FIG. 6

B080001.02





CONNECTOR VIEWS

Z3

FIG. 1

B200003.00

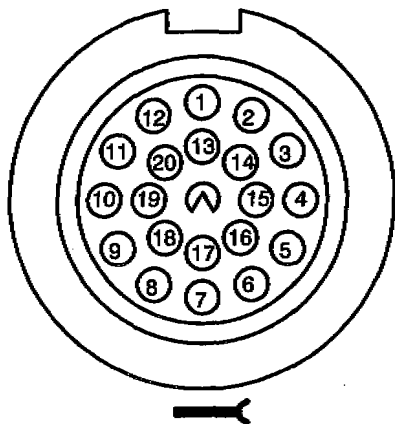


FIG. 2

B070005.00

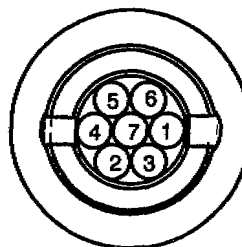


FIG. 3

B030003.00



FIG. 4

B250001.02

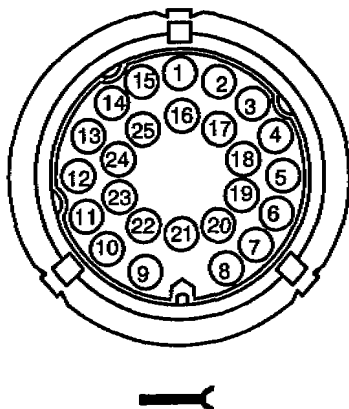
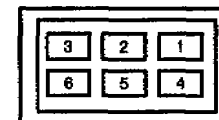


FIG. 5

B060019.03





Z3

CONNECTOR VIEWS

FIG. 1

B150002.00

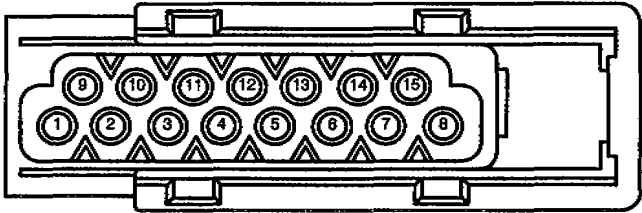


FIG. 2

B030034.00

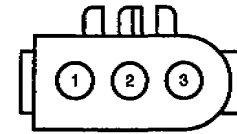


FIG. 3

B060038.00

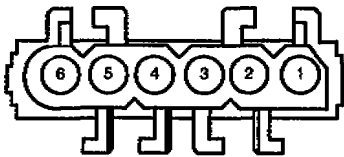


FIG. 4

B040027.00

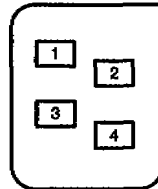


FIG. 5

B030006.00

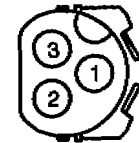


FIG. 1

B0400028.00

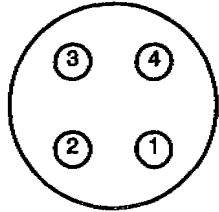


FIG. 2

B080020.00

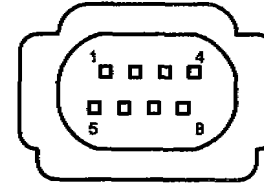


FIG. 3

B0300044.00

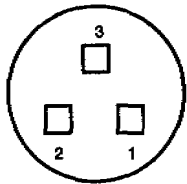


FIG. 4

B0300011.00

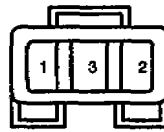
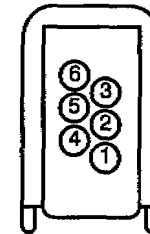


FIG. 5

B060041.00





Z3

CONNECTOR VIEWS

FIG. 1

B040026

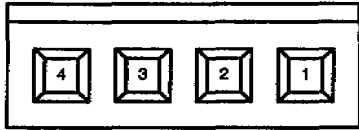


FIG. 2

B120006.00

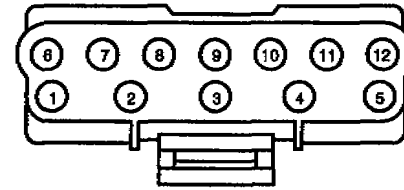


FIG. 3

B160000.00

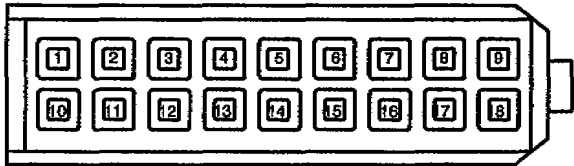


FIG. 4

B060037.00

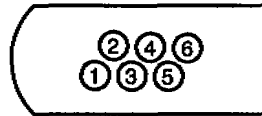
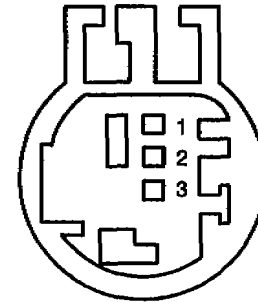


FIG. 5

B030042.00





CONNECTOR VIEWS

Z3

FIG. 1

B160002.00

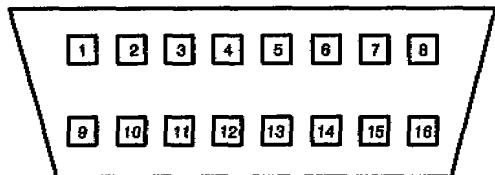


FIG. 2

B080013.00

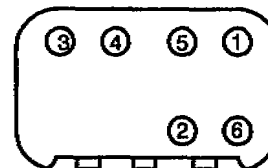


FIG. 3

B080013.00

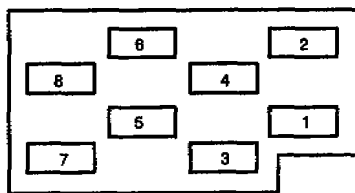
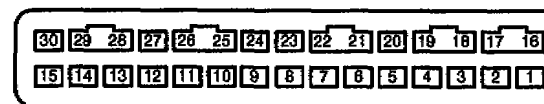


FIG. 4

B300003.00





Z3

CONNECTOR VIEWS

FIG. 1

B090006.01

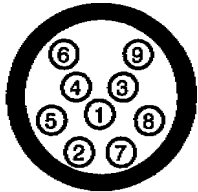


FIG. 2

B060043.00

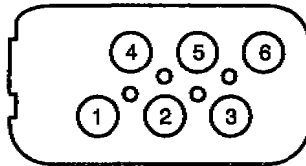


FIG. 3

B070012.00

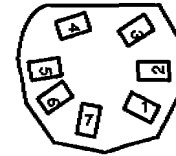


FIG. 4

B420000.00

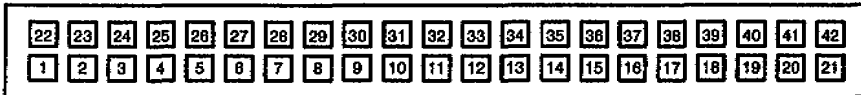
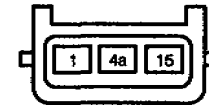


FIG. 5

B030015.08





CONNECTOR VIEWS

Z3

FIG. 1

B100001.00

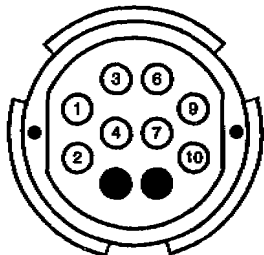


FIG. 2

B030018.02

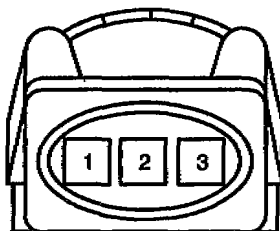


FIG. 3

B040023.02

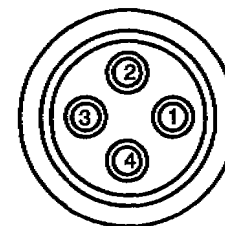


FIG. 4

B040023.01

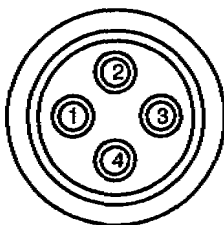
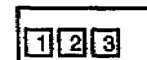


FIG. 5

B030038.01



CONNECTOR VIEWS

FIG. 1

B030022.00

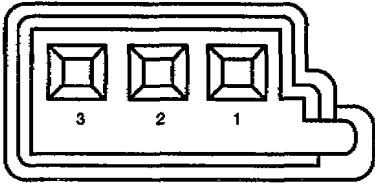


FIG. 2

B500000.00

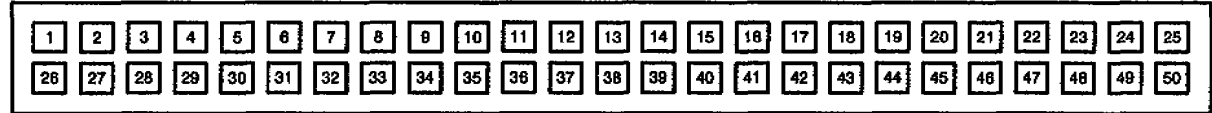


FIG. 3

B550002.00

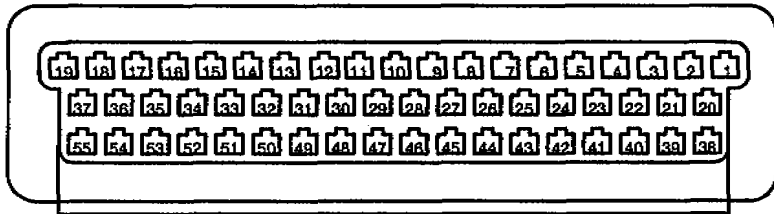
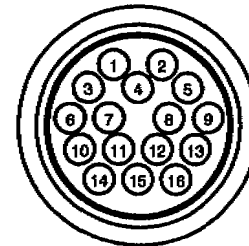


FIG. 4

B160001.00



CONNECTOR VIEWS

FIG. 1

B050001.00

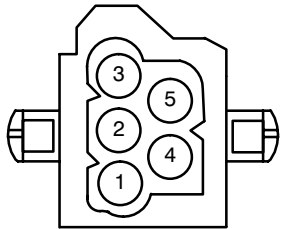


FIG. 2

B100004.02

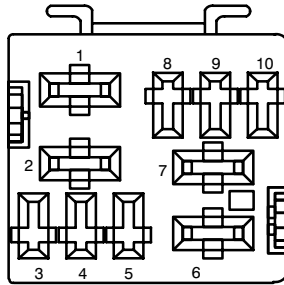


FIG. 3

B060042

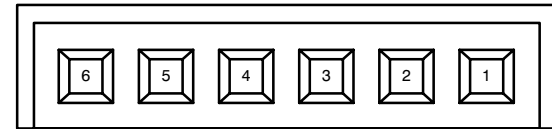


FIG. 4

B030048a

